

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, ILLINIOIS 60532-4352

July 30, 2010

Mr. Brian Wichman, MS Chief Medical Physicist, Radiation Safety Officer Kansas City Cancer Centers – South 1000 East 101st Terrace Kansas City, MO 64131

SUBJECT:

NRC ROUTINE INSPECTION REPORT NO. 030-36583/2010-001(DNMS) -

KANSAS CITY CANCER CENTERS - SOUTH

Dear Mr. Wichman:

On July 1, 2010, the U.S. Nuclear Regulatory Commission (NRC) conducted a routine inspection at two of your facilities, located in Lee's Summit and Kansas City, Missouri, with continuing in-office review through July 19, 2010. The in-office review consisted of review of the written report discussed below. The inspection results were discussed with you during a final telephonic exit briefing conducted on July 19, 2010.

This inspection was an examination of activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. Within these areas, the inspection consisted of selected examination of procedures and representative records, observations of activities, and interviews with personnel.

Based on the results of the inspection, no violations of NRC requirements were identified. No response is required to this letter or to the enclosed inspection report.

In addition, this letter acknowledges receipt of your written report dated July 14, 2010, discussing an issue with the documentation of a therapeutic administration of iodine-131 performed on March 9, 2010. We have reviewed your report and have no further questions.

In accordance with Title 10 Code of Federal Regulations (CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html.

Sincerely,

Tamara E. Bloomer, Chief Materials Inspection Branch

Docket No. 030-36583 License No. 24-32517-01

Enclosure:

Inspection Report No. 030-36583/2010-001(DNMS)

cc w/encl:

State of Missouri

NRC FORM 591M PART 1 U.S. NUCLEAR REGULATORY COMMI				ORY COMMISSION
SAFETY INSPI	ECTION REPORT	AND COMPLIANCE	INSPECTION	
1. LICENSEE/LOCATION INSPECTED: Kansas City Cancer Centers – South 1000 East 101st Terrace Kansas City, Missouri 64131		2. NRC/REGIONAL OFFICE Region III U.S. Nuclear Regu 2443 Warrenville I Lisle, Illinois 6053	llatory Commission Road, Suite 210 2-4351	
REPORT NUMBER(S) 2010-001				
3. DOCKET NUMBER(S) 030-36583	4. LICENSEE NUM 24-32517-01	BER(S)	5. DATE(S) OF INS July 1 – 19, 2010	SPECTION
LICENSEE:				
The inspection was an examination of to compliance with the Nuclear Regulat The inspection consisted of selective exand observations by the inspector. The	tory Commission (NR xaminations of proce	RC) rules and regulation dures and representati	ns and the conditions	of your license
X 1. Based on the inspection findings, no	violations were identified.			
2. Previous violation(s) closed.				
 The violation(s), specifically describe identified, non-repetitive, and corrective 1600, to exercise discretion, were satisfied. 	action was or is being take	as non-cited violations, are n en, and the remaining criteria	ot being cited because the a in the NRC Enforcement	y were self- Policy, NUREG-
Non-Cited Violatio	n(s) was/were discussed i	nvolving the following require	ement(s) and Corrective A	ction(s):
4. During this inspection certain of your cited. This form is a NOTICE OF VIOLAT (Violations and Corrective Actions)	activities, as described be FION, which may be subje	low and/or attached, were in ct to posting in accordance v	violation of NRC requirem vith 10 CFR 19.11.	ents and are being
I hereby state that, within 30 days, the actions d corrective actions is made in accordance with the date when full compliance will be achieved). I u Title Prin	escribed by me to the insprequirements of 10 CFR 2	.201 (corrective steps alread written response to NRC will	the violations identified.	vhich will be taken.
LICENSEE'S REPRESENTATIVE				
NRC INSPECTOR Geoffre	ey M. Warren	222		7/21/10
NRC FORM 591M PART 1 (10-2003)		and the constraint of the cons	Million Consulty (4 - Children and Phillips of Consultation (4 - Children and Child	Marie A Miller (Marie Andrews Andrews Agent College (Marie Andrews And

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Sincerely,

/RA/

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/RA/

Tamara E. Bloomer, Chief Materials Inspection Branch

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cc/encl:

State of Missouri

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NAME	GMWarren: jm		TEBloomer						
DATE	07/29/10		07/30/10						

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U.S. NUCLEAR REGULATORY COMMISSION NRC FORM 591M PART 3 **Docket File Information** (10-2003) 10 CFR 2.201 SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION 1. LICENSEE NRC/REGIONAL OFFICE Kansas City Cancer Centers - South NRC Region III 2443 Warrenville Road, Suite 210 Lisle, Illinois 60532-4351 REPORT NUMBER(S) 2010-001 5. DATE(S) OF INSPECTION 3. DOCKET NUMBER(S) 4. LICENSE NUMBER(S) 030-36583 24-32517-01 July 1-19, 2010 6. INSPECTION PROCEDURES USED 7. INSPECTION FOCUS AREAS 87131, 87132 03.01 - 03.08; 03.01 - 03.08SUPPLEMENTAL INSPECTION INFORMATION 1. PROGRAM CODE(S) 2. PRIORITY 3. LICENSEE CONTACT 4. TELEPHONE NUMBER 02230 2 Brian Wichman, M.S., RSO 913-757-5000 Main Office Inspection Next Inspection Date: July 2012

PROGRAM SCOPE

Rd., Kansas City

Field Office KCCC-East, 4881 NE Goodview Circle, Lee's Summit, MO; KCCC-North, 8700 N. Green Hills

The licensee operated three cancer treatment clinics in the Kansas City metropolitan area under this NRC license, and also operated two clinics in Kansas under a State of Kansas license. Licensed activities in Missouri were conducted only at the facilities identified on the license. According to the RSO, personnel at KCCC-South (1000 E. 101st Terrace, Kansas City, MO) performed only occasional radiopharmaceutical therapies.

KCCC-East and KCCC-North each had two full-time nuclear medicine technologists who performed diagnostic cancer imaging procedures, respectively around 180 and 140 procedures monthly, Doses were received as unit doses of fluorine-18 and carbon-11 from a licensed radiopharmacy. All waste was held for decay in storage.

Both facilities also performed High Dose Rate (HDR) remote afterloader procedures under 35.1000, as well as therapeutic radiopharmaceutical procedures under 35.300. The physics group which provided services at the licensee's facilities included four physicists, two dosimetrists, and several radiation oncologists. While each individual was assigned to a given facility, they worked at other facilities as needed. At KCCC-East, physics staff had performed 120 HDR fractions to date and performed around 2-3 radiopharmaceutical therapies annually using primarily samarium-153 and yttrium-90. At KCCC-North, physics staff annually performed around 250 HDR fractions and around 50 radiopharmaceutical therapies and whole-body scans using primarily iodine-131.

Performance Observations

The inspector observed a diagnostic administration of licensed material, including dose preparation and disposal. Licensee personnel demonstrated daily HDR checks, dose calibrator constancy, survey meter QC, package receipt surveys, daily and weekly contamination surveys, and waste disposal, and described training, radiopharmaceutical therapy administration, HDR treatment planning and administration, and patient release. The inspector noted no concerns with these activities. The inspector reviewed written directives for radiopharmaceutical therapies and HDR treatments and identified no concerns except as described below. Interviews with licensee personnel indicated adequate knowledge of radiation safety concepts and procedures. The inspector performed independent and confirmatory radiation measurements which indicated results consistent with licensee survey records and postings.

The inspector reviewed the licensee's written report dated July 14, 2010, concerning documentation of an iodine-131 therapy treatment which appeared to indicate that the dosage was more than 20 percent higher than the prescribed dosage. Based on the written report, the inspector determined that no medical event occurred.

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Temporary Job Site

Inspection