

RADIOLOGY ASSOCIATES
1801 Harvest Lane
Bloomfield Hills, Mi 48302

October 18, 2012

United States Nuclear Regulatory Commission
Region III, Materials Licensing
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

ATTN: Colleen Casey

RE: Amendment to NRC License No. 21-16754-01

Dear Sir/Madam:

The purpose of this letter is to remove a location of use from our current NRC license. We would like to request concurrent and expedited processing of this license amendment with the NRC license application for Opdyke Diagnostic Center listing this facility as a location of use. The reason for this request is to prevent any disruption of clinical practice or patient care. In addition, we would like to make this amendment effective on December, 1, 2012. Please find the enclosed information pertaining to both transactions.

Item #1

Please remove the following location of use from our NRC license:

**719 S. Opdyke Road
Auburn Hills, MI**

All equipment and radioactive material including the sealed sources will remain at the above location of use and will be transferred to Opdyke Diagnostic Center's NRC license pending the NRC's approval.

We have enclosed the results of daily area surveys and weekly contamination surveys for the past month for this facility. A current copy of the leak test results for the sealed sources used at our facility is enclosed for your review.

RECEIVED OCT 22 2012

Thank you for your cooperation. If you have any questions or require additional information, please contact our physics consultant, Sharon Updike at 734-662-3197.

Respectfully Yours,



Executive Management
Radiology Associates, P.C.



Sealed Source Leak Test

Licensee: Opdyke Diagnostic Center, PLC

Date: 08/28/12

Performed by: Sharon Updike

| Nuclide | Type | Calibration Activity | Calibration Date | Location | M/N | S/N |
|-----------------------------|-------|----------------------|------------------|----------|--------|-------------|
| Cs-137 | Vial | 216 uCi | 02/14/97 | Hot Lab | NES356 | S356034-063 |
| Current Activity: 150.84uCi | | | | | | |
| Ba-133 | Vial | 255.4 uCi | 08/01/03 | Hot Lab | IPL | 986-45-9 |
| Current Activity: 142.14uCi | | | | | | |
| Co-57 | Flood | 10 mCi | 01/01/11 | Hot Lab | NES392 | 1473-167 |
| Current Activity: 2.127mCi | | | | | | |

Comment: The sources listed above were leak tested using a dry wipe technique and were found to have less than 0.005 uCi removable activity. The following Minimum Detectable Activities are based upon a background at the indicated value. Background was at or below these levels when the above tests were completed.

Well Counter: Captus 3000

| Nuclide | MDA | Background |
|---------|--------------------------|------------------|
| Cs-137 | 2.0×10^{-4} uCi | 145 counts/1 min |
| Ba-133 | 8.8×10^{-5} uCi | 204 counts/1 min |
| Co-57 | 1.7×10^{-5} uCi | 53 counts/1 min |

RADIATION SAFETY OFFICER: _____

Daily Area Survey



MONTH: October

YEAR: 2012

INSTRUMENT: GM Survey Meter

Make: Ludlum

Model: 14C

Serial # 194297

Check source value: 0.95 mR/hr

| Enter readings in mR/h | | | | | | | | | | | | Name | |
|------------------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|-----------------|
| DAY | OK | BKG. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 10 |
| | Trigger values: | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| 1 | | | | | | | | | | | | | |
| 2 | 0.95 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | | R. Zoksa |
| 3 | 0.95 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.02 | | R. Zoksa |
| 4 | 0.95 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | R. Zoksa |
| 5 | 0.95 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.03 | | R. Zoksa |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | 0.95 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | R. Zoksa |
| 10 | 0.95 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | | R. Zoksa |
| 11 | 0.95 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | | R. Zoksa |
| 13 | 0.95 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.03 | | R. Zoksa |
| 14 | | | | | | | | | | | | | |
| 15 | 0.95 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.02 | 0.01 | 0.03 | 0.02 | | | <i>B. Zoksa</i> |
| 16 | 0.95 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | | | R. Zoksa |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |

Daily Area Survey



MONTH: September

YEAR: 2012

INSTRUMENT: GM Survey Meter

Make: Iudlum

Model: 14C

Serial # 194297

Check source value: 0.95 mR/hr

| Enter readings in mR/h | | | | | | | | | | | | | Name |
|------------------------|-----------------|------|------|------|------|------|------|------|------|------|-----|-----|---------|
| DAY | OK | BKG. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | Trigger values: | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| 1 | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | 0.95 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | R3oksa |
| 5 | 0.95 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.02 | | | R3oksa |
| 6 | | | | | | | | | | | | | |
| 7 | 0.95 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.03 | 0.02 | 0.03 | | | R3oksa |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | 0.95 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | | | R3oksa |
| | 0.95 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | | | R3oksa |
| 13 | 0.95 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | R3oksa |
| 14 | 0.95 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | | | R3oksa |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | 0.95 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.02 | 0.01 | | | Brennan |
| 18 | 0.95 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.03 | | | R3oksa |
| 19 | 0.95 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | | | R3oksa |
| 20 | 0.95 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | R3oksa |
| 21 | 0.95 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | | | R3oksa |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |
| 24 | 0.95 | 0.02 | 0.02 | 0.01 | 0.01 | 0.02 | 0.02 | 0.01 | 0.02 | 0.03 | | | Brennan |
| 25 | 0.95 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | 0.03 | 0.03 | | | R3oksa |
| 26 | 0.95 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | | | R3oksa |
| 27 | 0.95 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | R3oksa |
| 28 | 0.95 | 0.02 | 0.03 | 0.03 | 0.02 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | | | R3oksa |
| | 0.95 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | | | R3oksa |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |

**Nuclear Medicine
Weekly Wipe Records**

Window Setting:

Efficiency Factor (E.F) of Instrument = 2 DPM/CPM

Trigger Level (DPM): 1000 dpm/100 sq cm

To get Disintegrations Per Minute: $(\text{CPM} - \text{BKG}) \times \text{E.F.} = \text{DPM}$

| Background: | 1) | 2) | AVERAGE BKG: | | |
|-------------|-------|-------|--------------|------------------|------------------|
| Swipe | 1 | 2 | 3 | 4 | 5 |
| net CPM | _____ | _____ | _____ | _____ | _____ |
| net DPM | 62 | 62 | 62 | 62 | 64 |
| Swipe | 6 | 7 | 8 | 9 | 10 |
| net CPM | _____ | _____ | _____ | _____ | _____ |
| net DPM | 63 | 63 | 64 | _____ | _____ |

Signature of tester: R. Zoksa

DATE: 9-28-12

| Background: | 1) | 2) | AVERAGE BKG: | | |
|-------------|-------|-------|--------------|------------------|------------------|
| Swipe | 1 | 2 | 3 | 4 | 5 |
| net CPM | _____ | _____ | _____ | _____ | _____ |
| net DPM | 60 | 60 | 60 | 60 | 60 |
| Swipe | 6 | 7 | 8 | 9 | 10 |
| net CPM | _____ | _____ | _____ | _____ | _____ |
| net DPM | 60 | 60 | 60 | _____ | _____ |

Signature of tester: R. Zoksa

DATE: 10-5-12

| Background: | 1) | 2) | AVERAGE BKG: | | |
|-------------|-------|-------|--------------|------------------|------------------|
| Swipe | 1 | 2 | 3 | 4 | 5 |
| net CPM | _____ | _____ | _____ | _____ | _____ |
| net DPM | 0 | 0 | 0 | 0 | 0 |
| Swipe | 6 | 7 | 8 | 9 | 10 |
| net CPM | _____ | _____ | _____ | _____ | _____ |
| net DPM | 0 | 0 | 0 | _____ | _____ |

Signature of tester: R. Zoksa

DATE: 10-11-12

| Background: | 1) | 2) | AVERAGE BKG: | | |
|-------------|-------|-------|--------------|------------------|------------------|
| Swipe | 1 | 2 | 3 | 4 | 5 |
| net CPM | _____ | _____ | _____ | _____ | _____ |
| net DPM | _____ | _____ | _____ | _____ | _____ |
| Swipe | 6 | 7 | 8 | 9 | 10 |
| net CPM | _____ | _____ | _____ | _____ | _____ |
| net DPM | _____ | _____ | _____ | _____ | _____ |

Signature of tester:

DATE:

**Nuclear Medicine
Weekly Wipe Records**

Window Setting:

Efficiency Factor (E.F) of Instrument = 2 DPM/CPM

Trigger Level (DPM): 1000 dpm/100 sq cm

To get Disintegrations Per Minute: $(\text{CPM} - \text{BKG}) \times \text{E.F.} = \text{DPM}$

| Background: | 1) | 2) | AVERAGE BKG: | | |
|-------------|-------|----|--------------|------------------|------------------|
| Swipe | 1 | 2 | 3 | 4 | 5 |
| net CPM | _____ | | | | |
| net DPM | 60 | 60 | 60 | 60 | 64 |
| Swipe | 6 | 7 | 8 | 9 | 10 |
| net CPM | _____ | | | | |
| net DPM | 64 | 64 | 60 | _____ | _____ |

Signature of tester: R. Boksa

DATE: 8-31-12

| Background: | 1) | 2) | AVERAGE BKG: | | |
|-------------|-------|----|--------------|------------------|------------------|
| Swipe | 1 | 2 | 3 | 4 | 5 |
| net CPM | _____ | | | | |
| net DPM | 0 | 0 | 0 | 0 | 0 |
| Swipe | 6 | 7 | 8 | 9 | 10 |
| net CPM | _____ | | | | |
| net DPM | 0 | 0 | 0 | _____ | _____ |

Signature of tester: R. Boksa

DATE: 9-7-12

| Background: | 1) | 2) | AVERAGE BKG: | | |
|-------------|-------|----|--------------|------------------|------------------|
| Swipe | 1 | 2 | 3 | 4 | 5 |
| net CPM | _____ | | | | |
| net DPM | 63 | 63 | 63 | 63 | 0 |
| Swipe | 6 | 7 | 8 | 9 | 10 |
| net CPM | _____ | | | | |
| net DPM | 0 | 0 | 64 | _____ | _____ |

Signature of tester: R. Boksa

DATE: 9-14-12

| Background: | 1) | 2) | AVERAGE BKG: | | |
|-------------|-------|----|--------------|------------------|------------------|
| Swipe | 1 | 2 | 3 | 4 | 5 |
| net CPM | _____ | | | | |
| net DPM | 0 | 0 | 0 | 0 | 0 |
| Swipe | 6 | 7 | 8 | 9 | 10 |
| net CPM | _____ | | | | |
| net DPM | 0 | 0 | 0 | _____ | _____ |

Signature of tester: R. Boksa

DATE: 9-21-12