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|--------------|---------------------------|-------------|----|----|------|
| TO | Steve Cortemanche - NRC | DATE | 11 | 14 | 2003 |
| FROM | Robert J. Tokarz | | | | |
| RE | Dr. Fulda NRC 29-30750-01 | | | | |
| Pages | 5 | | | | |

RADIATION PROTECTION PROGRAM QUARTERLY AUDIT

| Radiation Safety Survey Reports | | | | |
|--|-------|-------|---------------|--|
| Surveys performed in controlled and uncontrolled areas where sealed and unsealed sources are routinely used on days they were used to include results in mR/hr, date performed, instrument used and surveyor's initials. | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Surveys of personnel including instrument used, date performed and initials. | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Wipe tests of controlled and uncontrolled areas where unsealed sources of radioactive material are routinely used, weekly, to include results in dpm, date performed, instrument used and surveyor's initials. | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| If occurred, were incidents (spills) reported to RSO. | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Surveys performed on all radioactive materials received including date of receipt, radionuclide, activity, mass or volume of material, results of package survey instrument used for surveys and surveyor's initials. | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Surveys of all radioactive waste decayed to background levels prior to release including results of survey of the waste, date of survey, date of waste disposal, instrument used, and surveyor's initials. | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Records of disposals to vendor include nuclide, activity, vendor name, quantity, and date of disposal. | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Patient Dose Administrations | | | | |
| Records of radioactive materials administered to patients must include date of administration, radionuclide, calibrated activity administered, quantity, patient name, and administrator's signature. | | | | <input type="checkbox"/> Pass <input checked="" type="checkbox"/> Needs Correction |
| Records of misadministration are to include the following: name of the referring physician, description of the event, the effect on the patient and the action taken to prevent recurrence. | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Survey Meter Records | | | | |
| Survey instrument calibration performed annually and after instrument repair. | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Survey Meter Spot Check | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Manufacturer | Model | Type | Serial Number | Calibration Date |
| Ludlum | 14C | Probe | 189129 | 10/29/2002 |
| | | | | |
| | | | | |
| Safety Protection Devices | | | | |
| While utilizing radioactive material, personnel shall use protective equipment and clothing including: | | | | |
| Laboratory coats | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Disposable gloves | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Syringe shields | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Vial shields | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Remote handling equipment | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |

RADIATION PROTECTION PROGRAM QUARTERLY AUDIT

| Sealed Source Records | | | | | |
|---|-------|---------------|-------------|------------|--|
| Sealed source leak tests at intervals not to exceed six months. Results are to be reported in microcuries. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Source | Type | Serial Number | Assay (mCi) | Assay Date | Exposure at 30 cm (mR/hr) |
| Co-57 | Sheet | 938-307 | 5 | 12/1/2002 | .2 |
| Co-57 | Vial | 934-85-20 | 5.397 | 12/1/2002 | .2 |
| Ba-133 | Vial | 934-83-3 | .2468 | 12/1/2002 | .2 |
| Cs-137 | Vial | 934-75-22 | .2018 | 12/1/2002 | .2 |
| | | | | | |
| | | | | | |
| | | | | | |
| Dose Calibrator Records | | | | | |
| 3 years of Annual Accuracy reports are kept on file. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| 3 years of Quarterly linearity reports are kept on file. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Geometry dependence report is kept on file (performed at installation and after repair). | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Daily constancy reports were performed on days in which radioactive materials were administered to patients. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Constancy Check: Cs-137: .202 Tc-99: .391 Tl-201: .219 | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Postings | | | | | |
| Are the following items posted in an area frequented by employees engaged in the use of licensed materials? | | | | | |
| Notice to employees – RPP-14. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Notice to employees – 10CFR19. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Emergency Procedures involving major, minor spills. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Emergency Numbers of people to contact. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Appropriate signs and labels in areas and/or containers and equipment in which radiation and/or radioactive material are contained. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| NRC Form 3. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Procedures for opening packages. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Personnel Dosimetry Records | | | | | |
| Personnel dosimetry records including name, social security number, and prior employment exposure history. | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Were any ALARA limits exceeded? | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Miscellaneous | | | | | |
| Are controlled areas secured when areas are unoccupied? | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |
| Are initial and annual training records kept on file? | | | | | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Needs Correction |

SEALED SOURCE LEAK TEST

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31-Jul-03

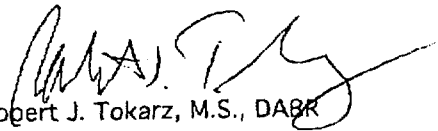
| SOURCE IDENTIFICATION | SERIAL NO. | GROSS | NET | NET uCi |
|-----------------------|------------|-------|-----|-------------|
| Co-57 sheet | 938-307 | 38 | 2 | 7.39863E-08 |
| Co-157 vial | 934-85-20 | 45 | 9 | 3.32938E-07 |
| Cs-137 vial | 934-75-22 | 16 | 7 | 4.11294E-06 |
| Ba-133 vial | 934-83-3 | 12 | 0 | 0 |

| ROD SOURCES | BACKGROUND | | | | |
|--|------------|-------|-------|-----------|------------|
| Co-57 T1/2 = 270d; 0.09758 uCi, 1Jun02 | 36 | 63845 | 63809 | 01-Jun-02 | 0.0329053 |
| Cs-137 T1/2 = 30y; 0.093uCi, 8/1/72 | 9 | 17080 | 17071 | 01-Aug-72 | 0.04497084 |
| Ba-133 T1/2 = 10.5y; 3uCi, 5/20/70 | 12 | 83120 | 83108 | 20-May-70 | 0.29055978 |

All sources were wiped with a cotton-tipped applicator. Wipes were counted in a sodium iodide well-type detector. Ludlum Model 2200 Spectrometer.

MDA = 9.3E-06 uCi

Prepared by:


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Reviewed by:

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