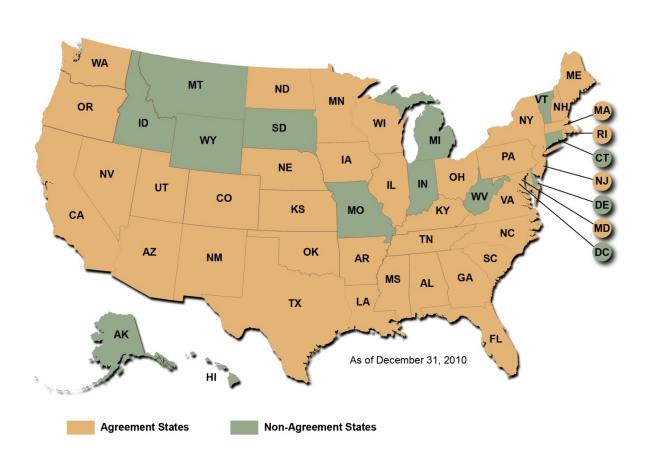


Occupational Radiation Exposure at Agreement State-Licensed Materials Facilities, 1997-2010





Occupational Radiation Exposure at Agreement State-Licensed Materials Facilities, 1997-2010

Manuscript Completed: April 2012 Date Published: July 2012

> Prepared by: D.E. Lewis D.A. Hagemeyer* Y.U. McCormick*

*Oak Ridge Associated Universities 100 ORAU Way Oak Ridge, TN 37830

EDITOR'S NOTE

Staff in the U.S. Nuclear Regulatory Commission Offices of Federal and State Materials and Environmental Management Programs and Nuclear Regulatory Research assisted in the preparation of this report, serving as technical reviewers. In addition, members from the Conference of Radiation Control Program Directors, Inc. and the Organization of Agreement States provided technical comments on this report.

Comments should be directed to:

Doris E. Lewis REIRS Project Manager Office of Nuclear Regulatory Research U.S. Nuclear Regulatory Commission Washington, DC 20555 Phone: 301-251-7559

E-mail Address: Doris.Lewis@nrc.gov

Paperwork Reduction Act Statement

This NUREG contains and references information collection requirements that are subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). These information collections were approved by the Office of Management and Budget, approval number 3150-0014.

Public Protection Notification

The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid OMB control number.

TABLE OF CONTENTS

| EDIT | DR'S NOTE | iii |
|--------|---|------------|
| LIST | OF FIGURES | vi |
| LIST | OF TABLES | vi |
| EXEC | UTIVE SUMMARY | vii |
| ABBR | REVIATIONS | ix |
| 1 INTI | RODUCTION | 1 |
| | 1.1 Background | 1 |
| • | 1.2 Agreement States and NRC | 2 |
| • | 1.3 Agreement State Compatibility with NRC Regulations | 2 |
| 2 LIM | ITATIONS OF THE DATA | 5 |
| 3 ANN | NUAL PERSONNEL MONITORING REPORTS | 7 |
| ; | 3.1 Definition of Terms and Sources of Data | 7 |
| | 3.1.1 Number of Licensees Reporting | |
| | 3.1.2 Number of Monitored Individuals | |
| | 3.1.3 Number of Individuals with Measurable Dose | |
| | 3.1.4 Collective Dose | |
| | 3.1.5 Average measurable bose | |
| | 3.3 Summary of Occupational Dose Data by License Category | |
| · | 3.3.1 Industrial Radiography Licenses, Fixed Locations, and Temporary Job Sites | |
| | 3.3.2 Manufacturing and Distribution Licenses | |
| | 3.3.3 Waste Disposal Burial and Service Processing and/or Repackaging | |
| | 3.3.4 Irradiators Other Less Than 10000 Curies | 16 |
| | 3.3.5 Well Logging Byproduct and/or Special Nuclear Material (SNM) Sealed | |
| | Sources Only and Measuring Systems Portable Gauges | 1 <i>/</i> |
| | 3.3.7 Instrument Calibration Service Only – Source >100 Curies/Other Services | |
| 4 EXF | POSURES TO PERSONNEL IN EXCESS OF REGULATORY LIMITS | 21 |
| 4 | 4.1 Reporting Categories | 21 |
| 4 | 4.2 Summary of Occupational Radiation Doses in Excess of NRC Regulatory Limits | 22 |
| 4 | 4.3 Summary of Annual Dose Distributions for Certain Agreement State Licensees | 23 |
| 4 | 4.4 Maximum Occupational Radiation Doses Below NRC Regulatory Limits | 25 |
| 5 COI | NCLUSIONS | 27 |
| 6 REF | FERENCES | 29 |
| ΔPPF | INDIX A _ LIST OF AGREEMENT STATE LICENSEES 1997 - 2010 | 21 |

LIST OF FIGURES

| Figure 3.1 | Annual Values for Industrial Radiography Licensees, 1997-2010 | 12 |
|------------|--|-----|
| Figure 3.2 | Annual Values for Manufacturing & Distribution and Nuclear Pharmacies, 1998-2010 | 14 |
| Figure 3.3 | Annual Values for Waste Disposal Burial and Service Processing and/or Repackaging, 1997-2010 | |
| Figure 3.4 | Annual Values for Irradiators Other Less than 10000 Curies, 1997-2010 | 16 |
| Figure 3.5 | Annual Values for Well Logging Measuring Systems, 1997-2010 | 17 |
| Figure 3.6 | Annual Values for Instrument Calibration and Other Services, 1997-2010 | 19 |
| LIST OF | TABLES | |
| Table 3.1 | Annual Exposure Information, 1997-2010 | . 8 |
| Table 3.2 | Summary Distribution of Collective TEDE by License Category, 1997-2010 | 11 |
| Table 3.3 | Annual Exposure Information for Industrial Radiographers, 2008-2010 | 13 |
| Table 3.4 | Annual Exposure Information for Manufacturing and Distribution, 2008-2010 | 14 |
| Table 3.5 | Annual Exposure Information for Waste Disposal Burial and Service Processing and/or Repackaging, 2008-2010 | 16 |
| Table 3.6 | Annual Exposure Information for Irradiators Other Less Than 10000 Curies, 2008-2010 | 17 |
| Table 3.7 | Annual Exposure Information for Well Logging Byproduct and/or SNM Sealed Sources Only and Measuring Systems Portable Gauges, 2008-2010 | 18 |
| Table 3.8 | Annual Exposure Information for Veterinary Non-Human, Instrument Calibration Service, Other Services, 2008-2010 | 19 |
| Table 4.1 | Summary of Annual Distributions for Certain Agreement State Licensees, 1997-2010 | 25 |
| Table 4.2 | Maximum Occupational Exposures for Each Exposure Category, 1997-2010 | 26 |

EXECUTIVE SUMMARY

On December 18, 2008, the U.S. Nuclear Regulatory Commission (NRC) staff provided a Policy Issue Notation Vote Paper, SECY-08-0197 (ADAMS Accession No. ML083360582), to the Commission which presented the regulatory and technical options of moving, or not moving, towards a greater degree of alignment of the NRC radiation protection regulatory framework with the International Commission on Radiological Protection (ICRP) Publication 103. In a Staff Requirements Memorandum dated April 2, 2009, SRM-SECY-08-0197 (ML090920103), the Commission approved the staff's recommendation to immediately begin engagement with stakeholders and interested parties to initiate development of the technical basis for possible revision of the NRC's radiation protection regulations, as appropriate and where scientifically justified. As part of the outreach to stakeholders and interested parties, NRC staff noted the need to expand the current occupational radiation dose information contained in the Radiation Exposure Information and Reporting System (REIRS) database.

Seven categories of NRC licensees are required to annually report on individual occupational exposure in accordance with Title 10 of the *Code of Federal Regulations*, Section 20.2206 (10 CFR 20.2206, "Reports of Individual Monitoring"). Specifically, these categories include commercial nuclear power reactors; industrial radiographers; fuel processors (including uranium enrichment facilities), fabricators, and reprocessors; manufacturing and distribution of byproduct material; independent spent fuel storage installations; facilities for land disposal of low-level waste; and geologic repositories for high-level waste. Because NRC has not licensed any geologic repositories for high-level waste and no NRC-licensed low-level waste disposal facilities are currently in operation, only five categories of NRC licensees report occupational radiation dose information to the REIRS database. Annually, approximately 170,000 reports on individual occupational radiation exposure are reported by NRC licensees.

The NRC's Statement on Adequacy and Compatibility of Agreement State Programs and Management Directive 5.9, "Adequacy and Compatibility of Agreement State Programs" (ML041770094) identifies the criteria that the NRC uses to determine those program elements that should be adopted by an Agreement State to maintain an adequate and compatible program. Although 10 CFR 20.2206 specifies certain categories of NRC licensees to report on individual occupational radiation exposure data, this requirement for Agreement States and their licensees is designated as a Compatibility Category D provision. Agreement States are not required to adopt Compatibility Category D provisions and reporting occupational radiation dose information is strictly voluntary on the part of the Agreement State Radiation Control Program. However, some Agreement State licensees voluntarily report their occupational radiation dose information to the NRC. Annually, approximately 3,500 reports on individual occupational radiation exposure are reported by Agreement State licensees and included in the REIRS database.

To expand the Agreement State occupational radiation dose information contained in the REIRS database, on August 6, 2010 NRC sent a letter (ML102100390) to Agreement State Radiation Control Programs. This letter requested occupational radiation dose information from industrial

radiography and nuclear pharmacy licensees, from the 2000 through 2009 monitoring years. These Agreement State licensee categories were asked to submit their data to help expand the current data from NRC licensees in these two licensee categories. This information can be used by NRC staff to inform decisions regarding potential changes to the agency's current annual occupational dose limit of 5 rem to coincide with the ICRP 103 recommendation of a 2 rem annual limit.

While the NRC letter requested dose data from the 2000 through 2009 monitoring years, NRC staff recognized the need to conduct a comprehensive analysis of the Agreement State occupational radiation dose data contained in the REIRS database. This analysis would provide NRC staff with information regarding occupational dose trends among Agreement State licensees for comparison between NRC licensees within the same licensee categories. This report summarizes the Agreement State occupational radiation exposure data maintained in the REIRS database from 1997 through 2010. The information contained in this report was compiled from the annual reports submitted by nine Agreement State licensee categories. These Agreement State licensee categories are industrial radiographers; manufacturers and distributors of byproduct material; waste disposal service processing and/or repackaging; irradiators; well logging companies; sealed source facilities; measuring systems and portable gauge facilities; calibration services; and veterinary (non-human) facilities. The annual reports submitted by these licensees consist of radiation exposure records for each monitored individual. These records were analyzed for trends and are presented in this report in terms of the collective dose and the dose distribution among the monitored individuals.

From 1997 through 2010, annual reports were received from a total of 312 Agreement State licensees. Compilations of the reports submitted by the 312 Agreement State licensees indicated that 40,622 individuals were monitored, 31,704 of whom received a measurable dose (Table 3.1). The collective dose incurred by these individuals was 5,908 person-rem. The average measurable dose per individual for all Agreement State licensees calculated from the reported data was 0.19 rem. The average measurable dose is defined as the total collective dose equivalent (TEDE) divided by the number of individuals receiving a measurable dose.

ABBREVIATIONS

AEA Atomic Energy Act

ALARA as low as reasonably achievable

CDE committed dose equivalent

CEDE committed effective dose equivalent

CRCPD Conference of Radiation Control Program Directors, Inc.

CSU chemistry synthesis unit
DDE deep dose equivalent

FSME Office of Federal and State Materials and Environmental Management Programs

ICRP International Commission on Radiological Protection

LDE lens dose equivalent

M&D Manufacturing and Distribution

mSv millisievert

ND non-detectable

NMED Nuclear Material Events Database

NRC U.S. Nuclear Regulatory Commission
OAS Organization of Agreement States

REIRS Radiation Exposure Information and Reporting System

RES Office of Nuclear Regulatory Research

SDE-ME shallow dose equivalent to the maximally exposed extremity

SDE-WB shallow dose equivalent to the whole body

SI international system of units SNM special nuclear material

SRM Staff Requirements Memorandum

Sv unit of sievert

TEDE total effective dose equivalent
TODE total organ dose equivalent

1 INTRODUCTION

1.1 Background

On December 18, 2008, the U.S. Nuclear Regulatory Commission (NRC) staff provided a Policy Issue Notation Vote Paper, SECY-08-0197 [Ref. 1], to the Commission which presented the regulatory and technical options of moving, or not moving, towards a greater degree of alignment of the NRC radiation protection regulatory framework with the International Commission on Radiological Protection Publication 103 [Ref. 2]. In a Staff Requirements Memorandum (SRM) dated April 2, 2009, SRM-SEC-08-0197 [Ref. 3], the Commission approved the NRC staff's recommended option to immediately begin engagement with stakeholders and interested parties. NRC staff noted the need to expand the current occupational radiation dose information contained in the Radiation Exposure Information and Reporting System (REIRS) database.

The NRC manages the REIRS database which maintains the occupational radiation dose information from specific categories of NRC licensees. Seven categories of NRC licensees are required to report annually on individual exposure in accordance with Title 10 of the *Code of Federal Regulations*, Section 20.2206 (10 CFR 20.2206, "Reports of Individual Monitoring"). Specifically, these categories include commercial nuclear power reactors; industrial radiographers; fuel processors (including uranium enrichment facilities), fabricators, and reprocessors; manufacturing and distribution of byproduct material; independent spent fuel storage installations; facilities for land disposal of low-level waste; and geologic repositories for high-level waste. Because NRC has not licensed any geologic repositories for high-level waste and no NRC-licensed low-level waste disposal facilities are currently in operation, NRC does not receive occupational radiation dose information from these two licensee categories.

To expand the Agreement State occupational radiation dose information contained in the REIRS database, NRC sent a letter (ML10210039) to Agreement State Radiation Control Programs [Ref. 4]. This letter requested occupational radiation dose information from industrial radiography and nuclear pharmacy licensees, for the 2000 through 2010 monitoring years. These Agreement State licensees were asked to submit their data to help expand the current data from NRC licensees in these two licensee categories. Currently, the REIRS database contains 100,535 records from industrial radiography and nuclear pharmacy licensees from 1997 through 2010. Nearly 39% or 38,857 are dose records from Agreement State licensees within these categories. However, twice as many industrial radiography and nuclear pharmacy licensees are licensed and regulated by Agreement States.

The purpose of this report is to examine occupational radiation exposures received under Agreement State licensees. As such, this report reflects the occupational radiation exposure data contained in the REIRS database, for 1997 through 2010, from Agreement State-licensed materials facilities.

1.2 Agreement States and NRC

Agreement States are those States that have entered into formal agreements with the NRC, pursuant to subsection 274b of the Atomic Energy Act (AEA) [Ref. 5,6], to regulate certain quantities of byproduct, source, and special nuclear material at facilities located within their borders. Agreement States issue radioactive material licenses, promulgate regulations, and enforce those regulations under the authority of each individual State's laws. Agreement States exercise their licensing and enforcement actions under direction of the governors in a manner that is adequate to protect public health and safety and compatible with the programs of the NRC. As of 2010, 36 States have signed formal agreements with the NRC [Ref. 7].

NRC assistance to States entering into agreements includes review of requests from States for 274b Agreements, or amendments to existing agreements, and meetings with States to discuss and resolve NRC review comments. NRC has the responsibility to periodically assess the Agreement State radioactive materials licensing and inspection programs through the Integrated Material Performance Evaluation Program (IMPEP) process with participation by the Organization of Agreement States (OAS) [Ref. 8]. Additionally, NRC provides early and substantive involvement of States in NRC rulemaking and other regulatory efforts; conducts training courses and workshops; evaluates technical licensing and inspection issues from Agreement States; and evaluates State rule changes.

The OAS is a nonprofit, voluntary, scientific, and professional society incorporated in the District of Columbia. The membership of OAS consists of state radiation control program directors and staff from the 36 Agreement States who are responsible for implementation of their respective Agreement State programs. The purpose of the OAS is to provide a mechanism for these Agreement States to work with each other and with the NRC on regulatory issues associated with their respective agreements.

The Conference of Radiation Control Program Directors, Inc. (CRCPD) [Ref. 9] is a 501(c)(3) non-profit, non-governmental professional organization dedicated to radiation protection. CRCPD's membership primarily consists of radiation professionals in State and local government that regulate the use of radiation sources. The purpose and goal of the CRCPD is to assist its members in their efforts to protect the public, radiation workers, and patients from unnecessary radiation exposure. CRCPD provides a forum for centralized communication on radiation protection matters between the States, Federal Government, and between individual States.

1.3 Agreement State Compatibility with NRC Regulations

The NRC's Statement on Adequacy and Compatibility of Agreement State Programs identifies the criteria that the NRC uses to determine those program elements that should be adopted by an Agreement State to maintain an adequate and compatible program. [Ref. 10] "An Agreement State radiation control program is compatible with the NRC's regulatory program when the State program does not create conflicts, duplications, gaps, or other conditions that jeopardize an orderly pattern in the regulation of agreement material (source, byproduct, and small quantities

of special nuclear material as identified by Section 274b. of the Atomic Energy Act, as amended) on a nationwide basis." [Ref. 10]

An Agreement State radiation control program is adequate to protect public health and safety if administration of the program provides reasonable assurance of protection of public health and safety in regulating the use of agreement material. Accordingly, NRC program elements are established in four compatibility categories.

- Compatibility Category A
 NRC program elements in Category A are those that are basic radiation
 protection standards and scientific terms and definitions that are necessary to
 understand radiation protection concepts. The program elements adopted by an
 Agreement State should be essentially identical to those of NRC to provide
 uniformity in the regulation of agreement material on a nationwide basis.
- Compatibility Category B
 NRC program elements in Category B are those that apply to activities that have direct and significant transboundary implications. An Agreement State should adopt program elements essentially identical to those of NRC.
- Compatibility Category C
 NRC program elements in Category C are those that do not meet the criteria of
 Category A or B but the essential objectives of which an Agreement State should
 adopt to avoid conflict, duplication, gaps, or other conditions that would
 jeopardize an orderly pattern in the regulation of agreement material on a
 nationwide basis. An Agreement State should adopt the essential objectives of
 the NRC program elements.
- Compatibility Category D
 NRC program elements in Category D are those that do not meet any of the criteria of Category A, B, or C, above and, thus, do not need to be adopted by Agreement States for purposes of compatibility.

The requirements to report occupational radiation dose information from specific categories of licensees and participation in the NRC's REIRS database for Agreement States are designated as Compatibility Category D provisions. Because Agreement States are not required to adopt Compatibility Category D provisions, the collection and reporting of this information to the NRC is strictly voluntary on the part of the Agreement State Radiation Control Program.

2 LIMITATIONS OF THE DATA

This report summarizes the Agreement State occupational radiation exposure data maintained in the REIRS database from 1997 through 2010. Nearly seven times as many facilities are licensed and regulated by Agreement States than are licensed and regulated by NRC. There are approximately 20,000 Agreement State licensees compared with almost 3,000 NRC licensees.

From 1997 through 2009, 3,131 radiation exposure records were received by the REIRS program from Agreement State licensees. As a result of the August 6, 2010 NRC Letter, another 37,491 radiation dose records were received between 2010 and 2011. The total number of Agreement State records account for less than 1% of all records contained in the REIRS database. Occupational radiation exposure records from the following Agreement State licensee categories are in the REIRS database: industrial radiographers, manufacturers and distributors of byproduct material, waste disposal burial and service processing and/or repackaging, irradiators, well logging byproduct and/or sealed source facilities, measuring systems and portable gauge facilities, calibration services, veterinary (non-human) facilities, and other services.

The Agreement State occupational radiation dose records contained in the REIRS database can be used by NRC staff to make informed decisions regarding potential changes to the agency's current annual occupational limit of 5 rem to align with the ICRP 103 recommendation of an annual limit of 2 rem. Although the Agreement State licensee data in the REIRS database account for less than 1% of the data, an analysis can be conducted regarding the potential impact of such a regulatory change. Section 4 contains additional details regarding the potential impacts of changing the current annual occupational limit from 5 rem to 2 rem.

All of the figures compiled in this report relating to exposures and occupational doses are based on the results and interpretations of the readings of various types of radiation-monitoring devices employed by each licensee. This information, obtained from routine radiation-monitoring programs, is sufficient to characterize the radiation exposure incident to individuals' work and is used in evaluating the radiation protection program.

Monitoring requirements specified in 10 CFR 20.1502 require licensees to monitor individuals who receive or are likely to receive, in 1 year, a dose in excess of 10% of the applicable limits. For adults, the annual occupational limit is 5 rem, so 0.5 rem per year is the level above which monitoring is required. Separate dose limits have been established for minors, declared pregnant individuals, and members of the public. Monitoring is also required for any individual entering a high or very high radiation area. Depending on the administrative policy of each licensee, persons such as visitors and clerical individuals may also be provided with monitoring devices, even though the probability of their exposure to measurable levels of radiation is extremely small. It is worth noting that this report does not include compilations of non-occupational exposure, such as exposure received by medical patients from X-rays, fluoroscopy, or accelerators, which is outside NRC regulatory jurisdiction.

Many licensees elect to report the doses for every individual for whom they provided monitoring. This practice increases the number of individuals that are considered to be exposed to radiation. In an effort to account for this increase, the number of individuals reported as having "no measurable dose" has been subtracted from the total number of individuals monitored in order to calculate an average dose per individual receiving a measurable dose, as well as the average dose per monitored individual.

When examining the annual statistical data, it is important to note that all of the personnel included in the report may not have been monitored throughout the entire year. Many licensees, such as industrial radiographers and nuclear pharmacies, may monitor numerous individuals for periods much less than a year. The average doses calculated from these data, therefore, are less than the average dose that an individual involved in that activity for the full year would receive. Licensees are not required to report the specific period of monitoring within the year. Many licensees report dose records for January 1 through December 31, regardless of the actual dates of monitoring. If an individual visits for only 1 day, but visits three times during the year, it is often reported as if the individual was there all year. NRC encourages reporting of the actual monitoring dates, but it is not a regulatory requirement.

All dose equivalent values in this report are given in units of rem in accordance with the general provisions for records in 10 CFR 20.2101(a). In order to convert rem into the International System of Units (SI) unit of sieverts (Sv), readers should divide the value in rem by 100. Therefore, 1 rem = 0.01 Sv. In order to convert rem into millisieverts (mSv), readers should multiply the value in rem by 10.

-

¹ The number of workers with measurable dose includes any individual with a dose greater than zero rem and does not include doses reported as "not detectable."

3 ANNUAL PERSONNEL MONITORING REPORTS

3.1 Definition of Terms and Sources of Data

Although Agreement State licensees are not required to submit exposure reports to NRC, some Agreement State licensees annually submit this data voluntarily. In addition to this voluntary submission, some Agreement State licensees also responded to the NRC Letter. The NRC Letter was a one-time request for certain categories of Agreement State licensees to submit their exposure data. As of June 2011, the NRC's REIRS database contains 40,622 occupational radiation exposure reports from Agreement State licensees. Table 3.1 summarizes the annual data that have been submitted from 1997 through 2010.

3.1.1 Number of Licensees Reporting

The number of licensees refers to the number of Agreement State licensees that filed occupational radiation exposure reports voluntarily for each year and in response to the NRC Letter. Appendix A contains additional detailed information on Agreement State licensees that have submitted information.

3.1.2 Number of Monitored Individuals

The number of monitored individuals refers to the total number of individuals that Agreement State licensees reported as being monitored for exposure to external and internal radiation during each respective year. The total number of individuals was determined from the number of unique personal identification numbers submitted per licensee.

3.1.3 Number of Individuals with Measurable Dose

The number of individuals with measurable dose includes any individual with a TEDE greater than zero rem.

3.1.4 Collective Dose

The concept of collective dose is used in this report to denote the summation of the TEDE received by all monitored individuals and is reported in units of person-rem. The collective dose is calculated by summing the TEDE for all monitored individuals. The phrase "collective dose" is used throughout this report to mean the collective TEDE, unless otherwise specified.

3.1.5 Average Measurable Dose

The average measurable dose is obtained by dividing the collective TEDE by the number of monitored individuals with measurable dose. This is the average most commonly used in this and other reports when examining trends and comparing doses received by individuals in various segments of the nuclear industry. It excludes individuals receiving zero or no detectable dose, many of whom were monitored for convenience or identification purposes.

3.2 Annual TEDE Dose Distributions

Table 3.2 provides a statistical compilation of the occupational dose reports by categories of licensees (see Section 3.4 for a description of each licensee category). The dose distributions are generated by summing the TEDE for each individual and counting the number of individuals in each dose range. In nearly every licensee category, a large number of individuals receive doses that are less than measurable, and very few doses exceed 4 rem.

Based on the 312 licensees that voluntarily submitted radiation dose data for the past 14 years, nearly 22% (8,918) of the individuals monitored received no measurable dose and 0.7% (304) of the individuals monitored exceeded 2 rem.

TABLE 3.1Annual Exposure Information 1997-2010

| | | | 1997-20 | 10 | | |
|---|--------------|------------------------|--|--|--|-------------------------------------|
| NRC License Category and Program Code | Year | Number of Licensees | Number of Monitored Individuals | Number of Individuals with Measurable Dose | Collective Dose (person-rem) | Average Measurable Dose (rem) |
| Industrial | 1997 | 2 | 36 | 12 | 0.310 | 0.026 |
| Radiography | 1998 | 2 | 42 | 33 | 4.189 | 0.127 |
| | 1999 | 1 | 9 | 7 | 1.585 | 0.226 |
| 03310 03320 | 2000 | 12 | 192 | 160 | 65.722 | 0.411 |
| 03320 | 2001 | 9 | 105 | 84 | 27.289 | 0.325 |
| | 2002 | 14 | 158 | 122 | 35.098 | 0.288 |
| | 2003 | 25 | 282 | 226 | 109.971 | 0.487 |
| | 2004 | 24 | 352 | 289 | 159.914 | 0.553 |
| | 2005 | 26 | 466 | 392 | 247.134 | 0.630 |
| | 2006 | 44 | 1,195 | 1,030 | 612.518 | 0.595 |
| | 2007 | 44 | 1,477 | 1,313 | 738.452 | 0.562 |
| | 2008 | 31 | 870 | 748 | 387.942 | 0.519 |
| | 2009 | 39 | 966 | 723 | 344.975 | 0.477 |
| | 2010 | 41 | 1,045 | 824 | 330.055 | 0.401 |
| 0 | verall Total | | The second secon | 100000000000000000000000000000000000000 | AND THE RESIDENCE OF THE PERSON OF THE PERSO | |
| | | 314 | 7,195 | 5,963 | 3,065.154 | 0.514 |
| Manufacturing | 1997 | | | No Data Reported | | |
| and Distribution | 1998 | 2 | 48 | 12 | 1.364 | 0.114 |
| Distribution | 1999 | 3 | 60 | 16 | 0.204 | 0.013 |
| 02500 | 2000 | 4 | 87 | 29 | 5.320 | 0.183 |
| 03214 | 2001 | 7 | 121 | 59 | 6.520 | 0.111 |
| | 2002 | 125 | 2,583 | 1,422 | 42.922 | 0.030 |
| | 2003 | 149 | 3,775 | 3,044 | 328.092 | 0.108 |
| | 2004 | 162 | 4,073 | 3,335 | 321.149 | 0.096 |
| | 2005 | 158 | 4,165 | 3,248 | 322.476 | 0.099 |
| | 2006 | 158 | 4,192 | 3,352 | 360.798 | 0.108 |
| | 2007 | 159 | 4,179 | 3,331 | 349.877 | 0.105 |
| | 2008 | 156 | 4,207 | 3,279 | 319.200 | 0.097 |
| | 2009 | 173 | 4,149 | 3,299 | 342.289 | 0.104 |
| | 2010 | 21 | 550 | 333 | 40.992 | 0.123 |
| 0 | verall Total | 1,277 | 32,189 | 24,759 | 2,441.203 | 0.099 |
| Waste Disposal | 1997 | 1 | 5 | 3 | 1.508 | 0.503 |
| urial and Service | 1998 | 2 | 33 | 17 | 1.954 | 0.115 |
| rocessing and/or | 1999 | 2 | 42 | 29 | 2.869 | 0.099 |
| Repackaging | 2000 | 1 | 5 | 4 | 0.874 | 0.219 |
| 00004 | 2001 | 1 | 5 | 4 | 0.948 | 0.237 |
| 03231 03234 | 2002 | 2 | 19 | 13 | 1.304 | 0.100 |
| 00204 | 2003 | 2 | 17 | 10 | 1.485 | 0.149 |
| | 2004 | - | 1.5 | No Data Reported | | 0.149 |
| | 2004 | 1 | 5 | 5 | 3.120 | 0.624 |
| | 2005 | 1 | 5 | 5 | 2.601 | 0.520 |
| | | | | 7 | | |
| | 2007 | 2 | 13 | | 2.263 | 0.323 |
| | 2008 | 1 | 5 | 5 | 1.717 | 0.343 |
| | 2009 | 1 | 3 | 2 | 1.712 | 0.856 |
| | 2010 | 1 | 3 | 3 | 2.681 | 0.894 |

8

TABLE 3.1Annual Exposure Information (continued)
1997-2010

| | | | | | | 16 |
|---|--------------|------------------------|---------------------------------------|--|---------------------------------|-------------------------------------|
| NRC License Category and Program Code | Year | Number of Licensees | Number of Monitored Individuals | Number of Individuals with Measurable Dose | Collective Dose (person-rem) | Average Measurable Dose (rem) |
| Irradiators Other | 1997-1999 | | | No Data Reported | 1 | |
| Less Than 10000 | 2000 | 1 | 10 | 5 | 2.335 | 0.467 |
| Curies | 2001 | 1 | 11 | 6 | 3.790 | 0.632 |
| 03511 | 2002 | 1 | 12 | 6 | 3.190 | 0.532 |
| | 2003 | 1 | 13 | 4 | 3.989 | 0.997 |
| | 2004 | 1 | 12 | 4 | 2.291 | 0.573 |
| | | | | | | |
| | 2005 | 1 | 9 | 4 | 2.232 | 0.558 |
| | 2006 | 1 | 11 | 5 | 2.474 | 0.495 |
| | 2007 | 1 | 10 | 4 | 2.357 | 0.589 |
| | 2008 | 1 | 10 | 4 | 2.575 | 0.644 |
| | 2009 | 1 | 10 | 4 | 2.113 | 0.528 |
| | 2010 | | | No Data Reported | 1 | |
| 0 | verall Total | 10 | 108 | 46 | 27.346 | 0.594 |
| Well Logging | 1997-1999 | | | No Data Reported | 1 | |
| Byproduct and/or | 2000 | 1 | 68 | 62 | 23.724 | 0.383 |
| SNM Sealed | 2001 | 1 | 83 | 82 | 38.305 | 0.467 |
| Sources Only | 2002 | 1 | 69 | 66 | 32.331 | 0.490 |
| 03111 | 2003 | 1 | 60 | 58 | 28.011 | 0.483 |
| | 2004 | 1 | 60 | 58 | 25.012 | 0.431 |
| | 2005 | 1 | 65 | 58 | 25.165 | 0.434 |
| | 2006 | 1 | 68 | 63 | 27.714 | 0.440 |
| | 2007 | 1 | 68 | 61 | 26.623 | 0.436 |
| | 2008 | 1 | 70 | 65 | 34.384 | 0.529 |
| | 2009 | 1 | 68 | 65 | 30.503 | 0.469 |
| 191 | 2010 | 1 | 68 | 56 | 27.050 | 0.483 |
| 0 | verall Total | 11 | 747 | 694 | 318.822 | 0.459 |
| Measuring | 1997-1999 | | | No Data Reported | 1 | |
| Systems Portable | 2000 | 1 | 20 | 18 | 4.733 | 0.263 |
| Gauges | 2001 | 1 | 16 | 15 | 3.145 | 0.210 |
| 03121 | 2002 | 1 | 12 | 11 | 2.795 | 0.254 |
| | 2003 | 1 | 13 | 12 | 3.242 | 0.270 |
| | 2004 | 1 | 14 | 11 | 2.418 | 0.220 |
| | 2005 | 1 | 14 | 13 | 1.656 | 0.127 |
| | 2006 | 1 | 16 | 16 | 4.552 | 0.285 |
| | 2007 | 1 | 11 | 9 | 1.831 | 0.203 |
| | 2008 | 1 | 12 | 12 | 1.595 | 0.133 |
| | 2009 | | | No Data Reported | | |
| | 2010 | 1 | 15 | 11 | 3.900 | 0.355 |
| 0 | verall Total | 10 | 143 | 128 | 29.867 | 0.233 |

TABLE 3.1Annual Exposure Information (continued)
1997-2010

| NRC License Category and Program Code | Year | Number of Licensees | Number of Monitored Individuals | Number of Individuals with Measurable Dose | Collective Dose (person-rem) | Average Measurable Dose (rem) |
|---|--------------|------------------------|---------------------------------------|--|---------------------------------|-------------------------------------|
| Veterinary Non-Human | 1997-2009 | | | No Data Reported | d | |
| 02400 | 2010 | 1 | 4 | 0 | 0.000 | |
| 0 | verall Total | 1 | 4 | 0 | 0.000 | - |
| Instrument Calibration Service | 1997-2008 | | | No Data Reported | d | |
| Only - Source > 100 Curies/Other | 2008 | 1 | 3 | 3 | 0.000 | 0.000 |
| Services 03222 03225 | 2009 | 2 | 36 | 2 | 0.414 | 0.207 |
| | 2010 | 2 | 37 | 2 | 0.247 | 0.124 |
| 0 | verall Total | 5 | 76 | 7 | 0.661 | 0.094 |
| GRA | ND TOTALS | 1,646 | 40,622 | 31,704 | 5,908.089 | 0.186 |

TABLE 3.2Summary Distribution of Collective TEDE by License Category 1997-2010

| License Category (Number of sites reporting) No meas. INDUSTRIAL RADIOGRAPHY Fixed Locations (31) Temporary Job Sites (283) Total (314) 1,079 | | - | | Number o | Number of Individuals with TEDE in the Ranges (rem)* | ls with TE | DE in the | Ranges | (rem)* | | | | | Total | Number with | Total Collective |
|---|---------|---------------|----------|----------|--|---------------|-----------|--------|--------|-------|------|--------------|--------|---------------------|----------------|-----------------------------|
| Ĕ | | | | | | | | | | | | ŀ | | | WATERI | |
| | | Meas. <0.1 | 0.10- | 0.25- | 0.50- 0.75 | 0.75- 1.00 | 1.00- | 3.00 | 3.00- | 4.00- | 6.00 | 6.00- | >12 | Number Monitored | Meas. Dose | Dose (TEDE) (person-rem) |
| | | | | | | | | | | | | | | | | |
| | 53 | 28 | 41 | 13 | 4 | | • | • | ř | | ř | 6 | | 242 | 88 | 11.712 |
| | | 1,897 | 953 | 973 | 571 | 459 | 9// | 197 | 36 | 10 | - | - | 1 | 6,953 | 5,874 | 3,053.442 |
| | | 1,955 | 296 | 986 | 675 | 459 | 776 | 197 | 36 | 9 | - | - | | 7,195 | 5,963 | 3,065.154 |
| MANUFACTURING AND DISTRIBUTION | | | | | | | | | | | | | | | | |
| Nuclear Pharmacies (1,254) 7,033 | | 18,451 | 3,721 | 1,622 | 457 | 172 | 154 | 35 | 41 | 2 | - | | * | 31,662 | 24,629 | 2.414.383 |
| Manufacturing & Dist- Other (23) 397 | 26 | 20 | 22 | 23 | 00 | m | 4 | ٠ | 1 | * | • | 1. | | 527 | 130 | 26.820 |
| Total (1,277) 7,430 | | 18,521 | 3,743 | 1,645 | 466 | 175 | 158 | 36 | 14 | 7 | - | | (Carri | 32,189 | 24,759 | 2,441.203 |
| WASTE DISPOSAL BURIAL AND SERVICE PROCESSING AND/OR REPACKAGING | OCESS | ING AND | OR REP | ACKAGIN | (2) | | | | | | | | | | | |
| Waste Disposal - Burial (2) | 26 | 24 | 14 | 1 | 1 | ř. | | 1. | ř. | 10 | í | 1. | 1 | 64 | 38 | 2.891 |
| Waste Disposal - Svc Processing(16) 27 | 27 | 22 | 17 | 14 | 7 | 4 | 4 | - | 1 | | • | , | • | 96 | 69 | 22.145 |
| Total (18) 53 | 63 | 46 | 31 | 14 | 7 | 4 | 4 | - | | | (*) | (* S | | 160 | 107 | 25.036 |
| IRRADIATORS OTHER LESS THAN 10000 CURIES/IRRA | RES/IRF | RADIATO | RS OTHE | R GREAT | DIATORS OTHER GREATER THAN 10000 CURIES | 10000 CUR | IES | | | | | | | | | |
| Irradiators Other < 10000 Curies (10) 62 | 62 | 7 | 9 | 12 | 0 | 2 | o | - | ٠ | • | | , | * | 108 | 46 | 27.346 |
| Total (10) 62 | 62 | 7 | 9 | 12 | 6 | 2 | 6 | - | 8 | | 100 | 31 | 84 | 108 | 46 | 27.346 |
| WELL LOGGING BYPRODUCT AND/OR SNM SEALED SOURCES ONLY/MEASURING SYSTEMS PORTABLE GAUGES | SEALED | SOURCE | ES ONLY | MEASUR | NG SYSTE | MS PORT | ABLE GA | NGES | | | | | | | | |
| Well Logging (11) 53 | 53 | 259 | 119 | 9/ | 51 | 71 | 113 | ß | ř | | | | * | 747 | 694 | 318.822 |
| rt gauges (10) | 15 | 43 | 43 | 59 | 9 | 4 | က | 0 | i | | 3 | 1 | 71 | 143 | 128 | 29.867 |
| Total (21) 68 | 89 | 302 | 162 | 105 | 57 | 75 | 116 | 2 | ٠ | ٠ | • | * | ٠ | 890 | 822 | 348.689 |
| VETERINARY NON-HUMAN/INSTRUMENT CALIBRATION | LIBRATI | | IICE ONL | Y - SOUR | SERVICE ONLY - SOURCE > 100 CURIES/OTHER SERVICES | URIES/OT | HER SER | VICES | | | | | | | | |
| Veterinary Non-Human (1) | 4 | | • | * | | * | | | * | 3. | | 1 | 4 | 4 | | |
| Instrument Calibration (2) 69 | 69 | | - 1 | 1 | | 10 | Ľ | | ř | 17 | 1 | 1 | r | 69 | • | |
| Other Services (3) | ì | 2 | - | - | (*) | * | • | , | 1 | • | • | * | • | 7 | 7 | 0.661 |
| | 73 | 9 | - | - | 1000 | 7.63 | | (J.#5) | (0.0 | 1,000 | (0) | (183) | 2740 | 80 | 7 | 0.661 |
| GRAND TOTALS 8,918 | | 20,836 | 4,910 | 2,763 | 1,113 | 715 | 1,063 | 239 | 90 | 12 | 2 | - | 70 | 40,622 | 31,704 | 5,908.089 |

^{*} Dose values exactly equal to the values separating ranges are reported in the next higher range.

3.3 Summary of Occupational Dose Data by License Category

3.3.1 Industrial Radiography Licenses, Fixed Locations, and Temporary Job Sites Industrial radiography licenses are issued to allow the use of sealed radioactive materials, usually in exposure devices or cameras, that primarily emit gamma rays for nondestructive testing of pipeline weld joints, steel structures, boilers, aircraft and ship parts, and other high-stress alloy parts. Some firms are licensed to conduct such activities in one location, usually in a permanent facility designed and shielded for radiography; others perform radiography at temporary job sites in the field. The radioisotopes most commonly used are cobalt-60 and iridium-192. Table 3.1 lists the number of licensees that submitted annually from 1997 – 2010; however, only 100 unique radiography licensees reported in that time frame.

Figure 3.1 shows the number of individuals with measurable dose, the total collective dose, and the average measurable dose per individual for both types of industrial radiography licensees from 1997 through 2010. In the last 3 years, the combination of increased individuals with measurable dose plus slightly lower collective TEDE generated a lower average measurable TEDE per individual.

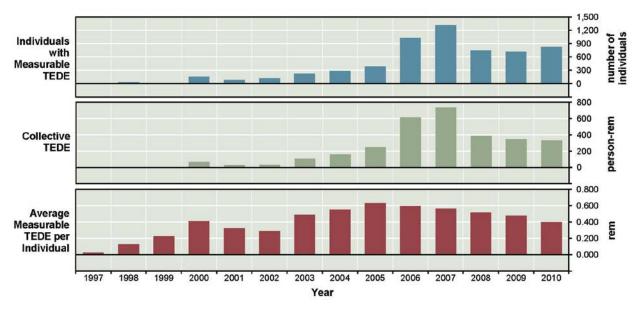


FIGURE 3.1
Annual Values for Industrial Radiography Licensees
1997-2010

Whereas industrial radiographers represent nineteen percent of the reported individuals with a measurable dose (shown in Table 3.2), they received just over half (51.9%) of the total collective dose. In addition, for this time period, 245 workers (4%) received measurable doses greater than or equal to 2 rem. These dose records augment the other 2,120 exposure records for NRC-licensed industrial radiographers that were in the REIRS database for the same time period whose measurable doses also were greater than or equal to 2 rem.

Table 3.3 summarizes the reported data for the two types of industrial radiography licensees for 2008, 2009, and 2010. Table 3.3 also shows that over 99% of the collective dose was attributed to radiographers working at temporary job sites. It is difficult for these individuals to avoid exposure to radiation at temporary job sites in the field. Conditions are not always favorable to provide shielding or to use distance as a means of reducing exposure.

TABLE 3.3
Annual Exposure Information for Industrial Radiographers 2008-2010

| Year | Type of License | Number of Licensees | Number of Monitored Individuals | Individuals with Measurable Dose | Collective Dose (person-rem) | Average Measurable Dose (rem) |
|------|---------------------|------------------------|---------------------------------------|--|------------------------------------|-------------------------------------|
| | Fixed Location | 4 | 34 | 14 | 1.870 | 0.13 |
| 2008 | Temporary Job Sites | 27 | 836 | 734 | 386.072 | 0.53 |
| | Total | 31 | 870 | 748 | 387.942 | 0.52 |
| | Fixed Location | 1 | 9 | 1 | 0.126 | 0.13 |
| 2009 | Temporary Job Sites | 38 | 957 | 722 | 344.849 | 0.48 |
| | Total | 39 | 966 | 723 | 344.975 | 0.48 |
| | Fixed Location | 1 | 10 | 6 | 0.083 | 0.01 |
| 2010 | Temporary Job Sites | 40 | 1,035 | 818 | 329.972 | 0.40 |
| | Total | 41 | 1,045 | 824 | 330.055 | 0.40 |

3.3.2 Manufacturing and Distribution Licenses

Manufacturing and distribution (M&D) licenses are issued to allow the manufacture and distribution of radionuclides in various forms for a number of diverse purposes. The products are usually distributed to organizations/companies specifically licensed by NRC or an Agreement State. Nuclear pharmacies, the largest licensee contributor, are involved in the compounding and dispensing of radioactive materials for use in nuclear medicine procedures. Table 3.1 lists the number of licensees that submitted annually, with 199 unique manufacturing and distribution licensees reporting from 1998 through 2010.

Figure 3.2 shows the number of individuals with measurable dose, the total collective dose, and the average measurable dose per individual for Type "A" Broad, Type "B" Broad and other, and nuclear pharmacies licensees from 1998 through 2010. In 2010, a large decrease in both the number of individuals reported and the collective TEDE created a slight increase in the average measurable TEDE.

Whereas nuclear pharmacy workers represent nearly 78% of the reported individuals with a measurable dose (shown in Table 3.2), they received 40.9% of the total collective dose. In addition, for this time period, 52 workers (0.2%) received measurable doses greater than or equal to 2 rem. These dose records augment the other 561 exposure records for NRC-licensed nuclear pharmacy workers that were in the REIRS database for the same time period whose measurable doses also were greater than or equal to 2 rem.

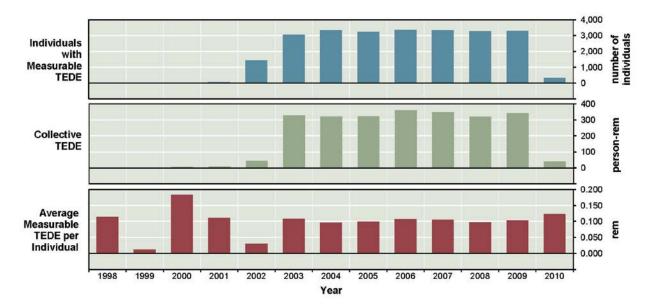


FIGURE 3.2
Annual Values for Manufacturing & Distribution and Nuclear Pharmacies
1998-2010

Table 3.4 summarizes the reported data for manufacturing and distribution licensees for 2008, 2009, and 2010, with the exception of Type "A" Broad licensees that did not submit dose records in any of these 3 years.

TABLE 3.4Annual Exposure Information for Manufacturing and Distribution 2008-2010

| Year | Type of License | Number of Licensees | Number of Monitored Individuals | Individuals with Measurable Dose | Collective Dose (person-rem) | Average Measurable Dose (rem) | | |
|------|----------------------------------|------------------------|---------------------------------------|-------------------------------------|---------------------------------|-------------------------------------|--|--|
| | M & D - Type "A" Broad | No Data Reported | | | | | | |
| 2008 | M & D - Type "B" Broad and Other | 2 | 43 | 8 | 0.770 | 0.10 | | |
| 2008 | M & D - Nuclear Pharmacies | 154 | 4,164 | 3,271 | 318.430 | 0.10 | | |
| | Total | 156 | 4,207 | 3,279 | 319.200 | 0.10 | | |
| | M & D - Type "A" Broad | No Data Reported | | | | | | |
| 2009 | M & D - Type "B" Broad and Other | 2 | 44 | 12 | 1.365 | 0.11 | | |
| 2009 | M & D - Nuclear Pharmacies | 171 | 4,105 | 3,287 | 340.924 | 0.10 | | |
| | Total | 173 | 4,149 | 3,299 | 342.289 | 0.10 | | |
| | M & D - Type "A" Broad | No Data Reported | | | | | | |
| 2010 | M & D - Type "B" Broad and Other | 2 | 47 | 10 | 4.709 | 0.47 | | |
| 2010 | M & D - Nuclear Pharmacies | 19 | 503 | 323 | 36.283 | 0.11 | | |
| | Total | 21 | 550 | 333 | 40.992 | 0.12 | | |

3.3.3 Waste Disposal Burial and Service Processing and/or Repackaging

Waste disposal burial and service processing and/or repackaging licenses are issued to allow the processing or repackaging of radionuclides in various forms for shipment and ultimate disposal. Three unique waste disposal licensees submitted reports from 1997 through 2010.

Figure 3.3 shows the number of individuals with measurable dose, the total collective dose, and the average measurable dose per individual for waste disposal service from 1997 through 2010. As illustrated by Figure 3.3, no data have been received for 2004. Table 3.1 and Figure 3.3 may be updated in the future if data are voluntarily submitted for this specific year.

Table 3.5 summarizes the reported data for waste disposal licensees for 2008, 2009, and 2010.

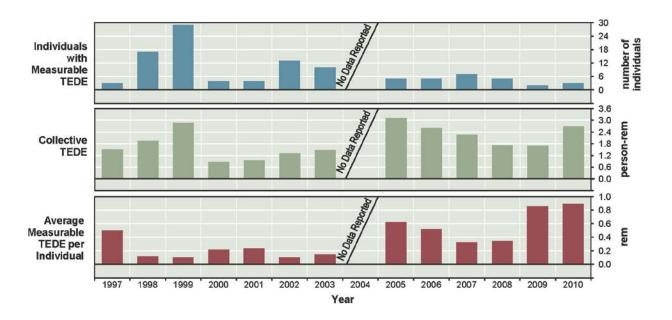


FIGURE 3.3
Annual Values for Waste Disposal Burial and Service Processing and/or Repackaging 1997-2010

TABLE 3.5Annual Exposure Information for Waste Disposal Burial and Service Processing and/or Repackaging 2008-2010

| Year | Type of License | Number of Licensees | Number of Monitored Individuals | Individuals with Measurable Dose | Collective Dose (person-rem) | Average Measurable Dose (rem) |
|------|-----------------|------------------------|---------------------------------------|--|---------------------------------|-------------------------------------|
| 2008 | Waste Disposal | 1 | 5 | 5 | 1.717 | 0.34 |
| 2008 | Total | 1 | 5 | 5 | 1.717 | 0.34 |
| 2009 | Waste Disposal | 1 | 3 | 2 | 1.712 | 0.86 |
| 2009 | Total | 1 | 3 | 2 | 1.712 | 0.86 |
| 2010 | Waste Disposal | 1 | 3 | 3 | 2.681 | 0.89 |
| 2010 | Total | 1 | 3 | 3 | 2.681 | 0.89 |

3.3.4 Irradiators Other Less Than 10000 Curies

Irradiators other less than 10000 curies licenses are issued for use in irradiation of products, food for human consumption, or research purposes. One single irradiator licensee reported annually from 2000 through 2009.

Figure 3.4 shows the number of individuals with measurable dose, the total collective dose, and the average measurable dose per individual for irradiator licensees from 1997 through 2010. In the past 6 years, the collective TEDE has remained relatively level.

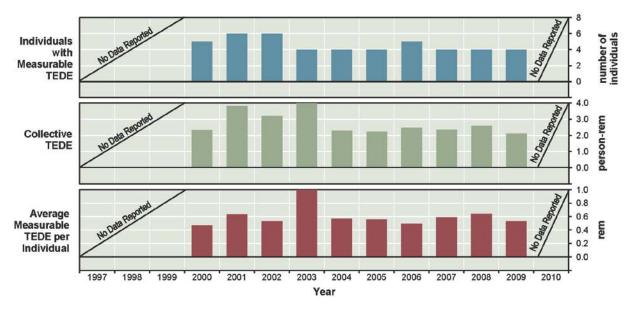


FIGURE 3.4
Annual Values for Irradiators Other Less Than 10000 Curies
1997-2010

Table 3.6 summarizes the reported data for irradiators for 2008, 2009, and 2010.

TABLE 3.6Annual Exposure Information for Irradiators Other Less than 10000 Curies 2008-2010

| Year | Type of License | Number of Licensees | Number of Monitored Individuals | Individuals with Measurable Dose | Collective Dose (person-rem) | Average Measurable Dose (rem) | |
|------|----------------------------------|------------------------|---------------------------------------|-------------------------------------|---------------------------------|-------------------------------------|--|
| 2022 | Irradiators Other < 10000 Curies | 1 | 10 | 4 | 2.575 | 0.64 | |
| 2008 | Total | 1 | 10 | 4 | 2.575 | 0.64 | |
| 2000 | Irradiators Other < 10000 Curies | 1 | 10 | 4 | 2.113 | 0.53 | |
| 2008 | Total | 1 | 10 | 4 | 2.113 | 0.53 | |
| 2010 | Irradiators Other < 10000 Curies | No Data Reported | | | | | |
| 2010 | Total | 140 | - | - | 2 | 120 | |

3.3.5 Well Logging Byproduct and/or Special Nuclear Material (SNM) Sealed Sources Only and Measuring Systems Portable Gauges

Licenses for sealed byproduct materials are issued for well logging, tracer operations, and research and development. Licenses for portable gauge devices are issued to measure moisture, density, and thickness using sealed sources in a variety of gauge designs.

Only two well logging and portable gauge licensees reported from 2000 through 2010.

Figure 3.5 shows the number of individuals with measurable dose, the total collective dose, and the average measurable dose per individual for well logging and portable gauge licensees from 1997 through 2010.

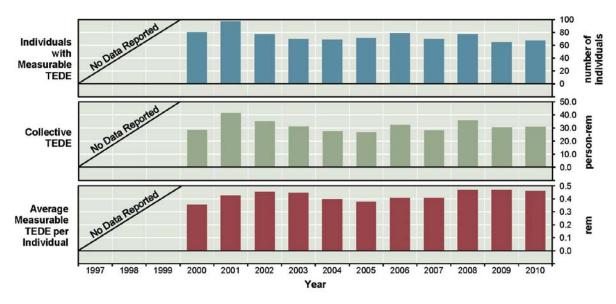


FIGURE 3.5
Annual Values for Well Logging Measuring Systems
1997-2010

Three percent of the reported individuals with measurable dose (shown in Table 3.2) were monitored by well logging, sealed source facilities, and measuring systems and portable gauge facilities, where they received 5.9% of the total collective dose.

Table 3.7 summarizes the reported data for well logging and measuring systems for 2008, 2009, and 2010.

TABLE 3.7

Annual Exposure Information for Well Logging Byproduct and/or SNM Sealed Sources Only and Measuring Systems Portable Gauges 2008-2010

| Year | Type of License | Number of Licensees | Number of Monitored Individuals | Individuals with Measurable Dose | Collective Dose (person-rem) | Average Measurable Dose (rem) | |
|------|---|------------------------|---------------------------------------|--|------------------------------|-------------------------------------|--|
| | Well Logging and/or SNM Sealed Sources Only | 1 | 70 | 65 | 34.384 | 0.53 | |
| 2008 | Measuring Systems Portable Gauges | 1 | 12 | 12 | 1.595 | 0.13 | |
| | Total | 2 | 82 | 77 | 35.979 | 0.47 | |
| | Well Logging and/or SNM Sealed Sources Only | 1 | 68 | 65 | 30.503 | 0.47 | |
| 2009 | Measuring Systems Portable Gauges | No Data Reported | | | | | |
| | Total | 1 | 68 | 65 | 30.503 | 0.47 | |
| | Well Logging and/or SNM Sealed Sources Only | 1 | 68 | 56 | 27.050 | 0.48 | |
| 2010 | Measuring Systems Portable Gauges | 1 | 15 | 11 | 3.900 | 0.35 | |
| | Total | 2 | 83 | 67 | 30.950 | 0.46 | |

3.3.6 Veterinary Non-Human

Veterinary use includes diagnostic, therapeutic, and research veterinary uses of radioactive drugs and devices. These licenses usually are issued for the treatment of domestic pets and non-food animals. At the present time, no radioactive veterinary drugs have been approved for use in animals intended for the human food supply.

No licensees in this category reported data in 2008 and 2009. Only one licensee in this category reported in 2010 with no measurable dose.

3.3.7 Instrument Calibration Service Only – Source > 100 Curies/Other Services

Instrument calibration services are involved in the calibration of radiation survey and monitoring instruments. Other services possess and use radioactive material for various commercial services, such as teletherapy, industrial gauge servicing, or nuclear laundry. Two licensees reported in these categories from 2008 through 2010.

Figure 3.6 shows the number of individuals with measurable dose, the total collective dose, and the average measurable dose per individual for instrument calibration service only – source > 100 curies, and for other services from 1997 through 2010.

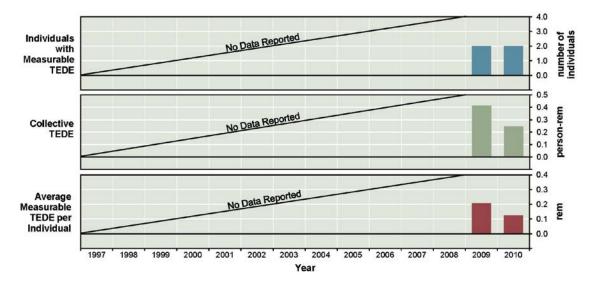


FIGURE 3.6
Annual Values for Instrument Calibration and Other Services
1997-2010

Table 3.8 summarizes the reported data for these licensees for 2008, 2009, and 2010. In 2009 and 2010, licensees for instrument calibration service only – source >100 curies and veterinary non-human submitted all individuals with no measurable exposure. These individuals were monitored and doses were reported as ND or non-detectable, which is represented by zero in Table 3.8. Therefore, no average measurable dose was calculated.

TABLE 3.8Annual Exposure Information for Veterinary Non-Human, Instrument Calibration Service, Other Services 2008-2010

| Year | Type of License | Number of Licensees | Number of Monitored Individuals | Individuals with Measurable Dose | Collective Dose (person-rem) | Average Measurable Dose (rem) | | | |
|------|--|------------------------|---------------------------------------|--|---------------------------------|-------------------------------------|--|--|--|
| 2008 | Veterinary Non-Human | No Data Reported | | | | | | | |
| | Instrument Calibration Service Only - source >100 Curies | No Data Reported | | | | | | | |
| | Other Services | 1 | 3 | 0 | 0.000 | | | | |
| | Total | 1 | 3 | 0 | 0.000 | 2 | | | |
| | Veterinary Non-Human | No Data Reported | | | | | | | |
| 2009 | Instrument Calibration Service Only - source >100 Curies | 1 | 34 | 0 | 0.000 | - | | | |
| | Other Services | 1 | 2 | 2 | 0.414 | 0.21 | | | |
| | Total | 2 | 36 | 2 | 0.414 | 0.21 | | | |
| | Veterinary Non-Human | 1 | 4 | 0 | 0.000 | | | | |
| 2010 | Instrument Calibration Service Only - source >100 Curies | 1 | 35 | o | 0.000 | i . | | | |
| | Other Services | 1 | 2 | 2 | 0.247 | 0.12 | | | |
| | Total | 3 | 41 | 2 | 0.247 | 0.12 | | | |

4 EXPOSURES TO PERSONNEL IN EXCESS OF REGULATORY LIMITS

4.1 Reporting Categories

Doses in excess of regulatory limits are sometimes referred to as "overexposures." The phrase "doses in excess of regulatory limits" is preferred to overexposures because the latter suggests that an individual has been subjected to an unacceptable biological risk, which may or may not be the case.

The implementation date for the revised 10 CFR Part 20 was January 1, 1994. 10 CFR Part 20 includes requirements for summing internal and external dose equivalents to yield TEDEs and to implement a similar limitation system for organs and tissues (such as the gonads, red bone marrow, bone surfaces, lung, thyroid, and breast). 10 CFR 20.1201 limits the TEDE of individuals to ionizing radiation from licensed material and other sources of radiation within the licensee's control. The annual occupational dose limit for adults is 5 rem.

10 CFR 20.2202 and 10 CFR 20.2203 require that all licensees submit reports of all occurrences involving personnel radiation doses that exceed certain control levels, thus providing for investigations and corrective actions as necessary. Based on the magnitude of the dose, the occurrence may be placed into one of three categories as follows:

1. Category A

10 CFR 20.2202(a)(1) — a TEDE to any individual of 25 rem or more, a lens dose equivalent of 75 rem or more, or a shallow-dose equivalent to the skin or extremities of 250 rad or more. The Commission must be notified immediately of these events.

2. Category B

10 CFR 20.2202(b)(1) — In a 24-hour period, the Commission must be notified of the following events: a TEDE to any individual exceeding 5 rem, a lens dose equivalent exceeding 15 rem, or a shallow-dose equivalent to the skin or extremities exceeding 50 rem.

3. Category C

10 CFR 20.2203 — In addition to the notification required by 10 CFR 20.2202 (Category A or B events), each licensee must submit a written report within 30 days after learning of any of the following occurrences:

- a. Any incident for which notification is required by 10 CFR 20.2202
- b. Doses that exceed the limits in §20.1201, §20.1207, §20.1208, or §20.1301 (for adults, minors, the embryo/fetus of a declared pregnant woman, and the public, respectively) or any applicable limit in the license
- c. Levels of radiation or concentrations of radioactive material that exceed any applicable license limit for restricted areas or that, for unrestricted areas, are in excess of 10 times

any applicable limit set forth in 10 CFR Part 20 or in the license (whether or not involving dose of any individual in excess of the limits in §20.1301)

d. For licensees subject to the provisions of the Environmental Protection Agency's generally applicable environmental radiation standards in 40 CFR 190, levels of radiation or releases of radioactive material in excess of those standards or license conditions related to those standards

Exposure events reported as either Category A, B, or C typically undergo an investigation and evaluation process by the licensee, the state department responsible for radiation protection, and NRC inspectors when applicable. Preliminary dose estimates submitted by licensees are often conservatively high and do not represent the final (record) dose assigned for the event. It is, therefore, not uncommon for a dose in excess of a regulatory limit event to be reassessed and the final assigned dose to be categorized as not having been in excess of a regulatory limit. In other cases, the exposure event may not be identified until a later date, such as during the next scheduled audit or inspection of the licensee's event records.

The exposure events summary presented here are for events that occurred between 1997 though 2010. An event that has been reassessed and determined not to be a dose in excess of a regulatory limit is not included in this report. The reader should note that the summary presented here represents a snapshot of the status of events through the end of calendar year 2010.

It is important to note that this summary of events includes only

- Occupational radiation doses in excess of the TEDE regulatory limit
- Events at Agreement State-licensed facilities

It does not include

- Medical events as defined in 10 CFR Part 35
- Doses in excess of the regulatory limits to the general public
- Doses in excess of shallow dose equivalent to the maximally exposed extremity (SDE-ME) and shallow dose equivalent to the whole body (SDE-WB)
- Other radiation-related violations, such as high dose-rate areas or effluent limits
- NRC-licensed facilities
- Exposures to dosimeters that, upon evaluation, have been determined to be high dosimeter readings only and are not assigned to an individual as the dose of record by the licensee

4.2 Summary of Occupational Radiation Doses in Excess of NRC Regulatory <u>Limits</u>

From 1997 through 2010, there were three events that resulted in exposures that exceeded the annual TEDE of 5 rem. Two of these incidents were reported to NRC's Nuclear Material Events Database (NMED) and one event was reported to the appropriate Agreement State Radiation

Control Program. Each event underwent an inspection, and the licensees developed a corrective action plan that was reviewed by either the NRC or the appropriate Agreement State Radiation Control Program, to prevent the recurrence of similar events.

In November 2005, a radiation safety officer conducted an update of the radiation exposure reports for their radiography firm. It was noted that for one of the radiographers, a past employer exposure history report could not be located. The past employer history report was eventually found and the radiographer had received 3.918 rem from work conducted at this previous company. When this dose was added to the dose received under his current employer, 1.795 rem, his annual dose was 5.713 rem. The licensee reported this event to the Texas Department of State Health Services and an event description was included in NRC's NMED. This was a category C event with a dose that exceeded the 5 rem TEDE limit.

In June 2007, a positron emission tomography technician received a dose of 5.440 rem while trouble shooting an error on a Chemistry Synthesis Unit (CSU) at a nuclear pharmacy. He made three attempts to inspect and repair the vacuum line behind the CSU without checking his pocket dosimeter. When this dose was added to his current dose, it brought his annual dose to 5.957 rem. The licensee reported this event to the Washington Department of Health. This was a category C event with a dose that exceeded the 5 rem TEDE limit.

In 2008, a radiography licensee received an exposure report for one of its terminated employees. The exposure report indicated that the employee received 8.212 rem. The radiography licensee conducted a review of the employee's exposure reports and tried to contact the employee to obtain additional information. Since the radiography licensee was unsuccessful in contacting the former employee, the radiography licensee reported this overexposure to the California Health and Human Services Agency and an event description was included in NRC's NMED. Since this employee conducted work at other facilities, it was determined that the total annual dose was 8.367 rem. This was a Category C event with a dose that exceeded the 5 rem TEDE limit.

4.3 Summary of Annual Dose Distributions for Certain Agreement State Licensees

The dose distribution shown in Table 3.2 reflects the number of individuals in each dose range as reported by each licensee. Each licensee reports the radiation exposure records for the individuals that worked at their facility. Individuals may work at more than one licensee during the year, and this is not reflected in the dose distribution compiled per licensee. Individuals monitored at more than one licensee are referred to as "transient" individuals. Transient individuals in the nuclear power industry are common and have a significant impact on the dose distribution. To determine the impact that transients have on the dose distribution for the Agreement State licensees, the doses are summed for each individual during the year (independent of location) to determine the annual value for each individual. Of particular interest are the individuals that may have exceeded a dose limit by receiving doses at multiple facilities.

Five rem is the regulatory dose limit for TEDE in 10 CFR Part 20.1201. Agreement States enforce this same regulatory limit. Two rem is commonly used as an administrative control level to ensure that doses do not approach the 5 rem limit and also to keep doses ALARA. The NRC is assessing the possibility of reducing the dose limit from 5 rem per year to 2 rem per year. Since a change to NRC's 5 rem per year regulatory limit could impact Agreement State licensees, assessing the number of individuals that exceed 2 rem per year at Agreement State licensees is included in this report.

Table 4.1 gives a summary of the individuals reported by Agreement State licensees and shows the number of reported individuals exceeding 2 rem and 5 rem per year from 1997 to 2010. Table 4.1 also shows that for 11 of the past 14 years, the percentage of individuals with less than 2 rem has been greater than 99%. The number of individuals receiving an annual dose greater than or equal to 5 rem has been less than 0.02% since 2005 and has been decreasing over the past 3 years. No individual monitored at any of the Agreement State licensee categories included in this report received a dose above the 5 rem annual TEDE limit during the past 2 years. It should be noted that this report contains only those Agreement State licensees that voluntarily reported their data to REIRS. Therefore, this data is only a representative sample of the dose information from all Agreement State licensees.

It is not possible to assess the impact on Agreement State licensees if the regulatory limit is changed to 2 rem because according to Table 4.1, few individuals have exceeded 2 rem. In addition, the data voluntarily reported by Agreement State licensees represents ~2% of all Agreement State licensees. As noted above, this data set is a representative sample and a generic assessment may not be applicable across the broad range of Agreement State licensee activities. However, as a general assessment, if the current regulatory limit were reduced from 5 rem to 2 rem, licensees may need to improve radiation protection practices, revise procedures, and possibly utilize more workers in certain tasks in order to distribute the dose among the worker population. A combination of these approaches could lessen the impact of a potential change in the regulatory limit, but there may still be challenges in reducing dose further in some occupational situations due to limitations in the availability of skilled workers that could perform certain tasks.

As shown in the Corrected Number column of Table 4.1, the impact of transient individuals to the dose received is minimal. Over the past 14 years, just over 1% of the total number of reported individuals may have been counted more than once because they worked at more than one facility during the calendar year.

TABLE 4.1Summary of Annual Distributions for Certain Agreement State Licensees 1997-2010

| | Total Number of I | Monitored Individuals | | Individuals v | ith Doses ** | | Individuals |
|------|---------------------|-----------------------|---------|---------------|--------------|---------|-------------|
| | Total Nulliber Of h | nonitorea marviadais | < 2 rem | > 2 rem | < 5 rem | > 5 rem | with Doses |
| Year | Reported Number | Corrected Number * | % | Number | % | Number | >12 rem ** |
| 1997 | 41 | 41 | 100.0% | 0 | 100.0% | 0 | 0 |
| 1998 | 123 | 101 | 100.0% | 0 | 100.0% | 0 | 0 |
| 1999 | 111 | 111 | 100.0% | 0 | 100.0% | 0 | 0 |
| 2000 | 382 | 381 | 99.2% | 3 | 100.0% | 0 | 0 |
| 2001 | 357 | 355 | 99.4% | 2 | 100.0% | 0 | 0 |
| 2002 | 2,850 | 2,847 | 99.9% | 2 | 100.0% | 0 | 0 |
| 2003 | 4,160 | 4,114 | 99.6% | 17 | 100.0% | 0 | 0 |
| 2004 | 4,511 | 4,463 | 99.6% | 16 | 100.0% | 0 | 0 |
| 2005 | 4,724 | 4,665 | 99.1% | 42 | 99.98% | 1 | 0 |
| 2006 | 5,487 | 5,429 | 98.8% | 67 | 100.0% | 0 | 0 |
| 2007 | 5,752 | 5,688 | 98.8% | 68 | 99.98% | 1 | 0 |
| 2008 | 5,179 | 5,125 | 99.3% | 35 | 99.98% | 1 | 0 |
| 2009 | 5,233 | 5,177 | 99.4% | 31 | 100.0% | 0 | 0 |
| 2010 | 1,723 | 1,718 | 98.7% | 22 | 100.0% | 0 | 0 |

^{*} This column lists the actual number of individuals who may have been counted more than once because they worked at more than one facility during the calendar year.

4.4 Maximum Occupational Radiation Doses Below NRC Regulatory Limits

Certain researchers have expressed an interest in a listing of the maximum doses received at licensed facilities that do not exceed NRC regulatory limits. This information allows an examination of these doses and could possibly provide insights on where certain improvements can be made regarding licensees' radiation protection programs.

Table 4.2 shows the maximum doses for each dose category required to be reported to the NRC. In addition, the number of doses in certain dose ranges is shown to reflect the number of doses that approach NRC regulatory limits. As shown in Table 4.2, few doses exceed half of the NRC occupational annual limits. The Agreement State occupational data analyzed over the 14-year period for this report indicate that 16 individuals exceeded 95% of the extremity dose limit and 3 individuals exceeded 95% of the 5 rem TEDE limit.

^{**} Data for 1997–2010 are based on the distribution of individual doses after adjusting for the multiple counting of transient individuals.

TABLE 4.2Maximum Occupational Exposures* for Each Exposure Category 1997-2010

| Dose Category** | Annual Does Limit 10CFR20*** | Maximum Dose Reported (rem) | Max Dose Percent of the Limit | Number of Individuals with Measurable Dose | Number of Individuals >25% of the Limit | Number of Individuals >50% of the Limit | Number of Individuals >75% of the Limit | Number of Individuals >95% of the Limit | Number of Individuals > Limit |
|--------------------|------------------------------------|--------------------------------------|-------------------------------------|--|--|--|--|--|-------------------------------------|
| SDE-ME | 50 rem | 60.560 | 121% | 17,874 | 2763 | 404 | 57 | 16 | 10 |
| SDE-WB | 50 rem | 13.412 | 27% | 31,177 | 2 | 0 | 0 | 0 | 0 |
| LDE | 15 rem | 8.856 | 59% | 30,302 | 30 | 2 | 0 | 0 | 0 |
| CEDE | | 2.086 | | 2,449 | | | | | |
| CDE | | 17.197 | | 3,136 | | | | | |
| DDE | | 8.367 | | 31,121 | | | | | |
| TEDE | 5 rem | 8.367 | 167% | 31,379 | 942 | 147 | 24 | 3 | 3 |
| TODE | 50 rem | 17.362 | 35% | 30,516 | 3 | 0 | 0 | 0 | 0 |

st Numbers have been adjusted for the multiple reporting of transient individuals.

SDE-WB = shallow dose equivalent to the whole body

LDE = *lens dose equivalent*

CEDE = committed effective dose equivalent

 $CDE = committed \ dose \ equivalent$

 $DDE = deep\ dose\ equivalent$

TEDE = total effective dose equivalent TODE = total organ dose equivalent

*** Shaded boxes represent dose categories that do not have specific dose limits defined in 10 CFR Part 20.

^{**} SDE-ME = shallow dose equivalent to the maximally exposed extremity

5 CONCLUSIONS

The occupational radiation exposure data submitted in response to the NRC Letter proved to be a valuable addition to the REIRS database. This data provided insight into the non-NRC licensees to better inform the NRC on possible impacts of changing the regulations to coincide with ICRP 103. In particular, the dose records voluntarily submitted in response to the NRC letter added 37,491 records to the REIRS database in nine licensee categories.

From 1997 to 2010, the Agreement State dose records greater than or equal to 2 rem for industrial radiography licensees totaled 4% (245) of the number with measurable dose, while the dose records greater than or equal to 2 rem for manufacturing and distribution licensees totaled 0.2% (52) of the number with measurable dose. While the manufacturing and distribution licensees have more individuals with measurable dose than industrial radiography licensees, the percentage of individuals exceeding 2 rem for industrial radiography is larger.

The Agreement State data included in this report show that the percentage of individuals with measurable dose that exceed 2 rem at Agreement State licensees was 1%. The percentage for all NRC licensees was 0.6%. With nearly 20,000 licenses issued in Agreement States, this report analyzed dose records from only 312 (2%) Agreement State licensees. As a result of this report, it is expected that there will be an increase in the number of Agreement State licensees who voluntarily submit their data to REIRS for future analysis.

6 REFERENCES

- SECY-08-0197. "Options to Revise Radiation Protection Regulations and Guidance with Respect to the 2007 Recommendations of the International Commission on Radiological Protection," dated December 18, 2008 (ML083360582).
- 2. International Commission on Radiological Protection Publication 103. *The 2007 Recommendations of the International Commission on Radiological Protection*, Annals of the ICRP Volume 37 Nos. 2-4, 2007.
- 3. SRM-SECY-08-0197. "Options to Revise Radiation Protection Regulations and Guidance with Respect to the 2007 Recommendations of the International Commission on Radiological Protection," dated April 2, 2009 (ML090920103).
- NRC Letter. Request to Provide Occupational Radiation Dose Data from Industrial Radiography and Nuclear Pharmacy Licensees (ML10210039), dated August, 2010.
- 5. Agreement State Program. http://www.nrc.gov/about-nrc/state-tribal/agreement-states.html.
- 6. The Atomic Energy Act of 1954, as amended, dated August 30, 1954.
- 7. U. S. Nuclear Regulatory Commission. *Information Digest 2009-2010, USNRC Report NUREG-1350, Volume 21, August 2009.*
- 8. Organization of Agreement States. http://www.agreementstates.org/.
- Conference of Radiation Control Programs, Inc. http://www.crcpd.org/about/about.aspx.
- 10. U. S. Nuclear Regulatory Commission. *Management Directive 5.9, "Adequacy and Compatibility of Agreement State Programs,"* February 1998

Appendix A LIST OF AGREEMENT STATE LICENSEES, 1997 - 2010

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees
1997

| | | | Z | umber o | f Individ | uals wit | Number of Individuals with Whole Body Doses in the Ranges (rems)* | Body D | oses in (| the Rang | Jes (rem | *(s | | | | | 1000 | |
|---|------------------------|------------|-----------|---------------------|-----------|----------|---|--------|-----------|----------|----------|-------|-----|-------|-----------|------|--------------|--------------------------|
| | | No | Meas | 0 10 | 0.25 | 0.50 | 0.40. 0.25. 0.60. 0.75. 1.00. 2.00. 3.00. 4.00. 6.00. | 100 | , nn. | 300- | 4 00- | 5 00- | 900 | | Total | with | Collective | Average Meas. TENE |
| LICENSEE NAME | FICENSE# | Exposure | | 0.25 | 0.50 0.75 | 0.75 | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 | 6.00 | | >12.0 | Monitored | Dose | (person-rem) | (rem) |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR | RVICE PROCESS | ING AND/O | | REPACKAGING - 03234 | VG - 03 | 34 | | | | | | | | | | | | |
| ENVIRONMENTAL MANAGEMENT 3546-50 & CONTROLS | 1ENT 3546-50 | 2 | ' | ' | 2 | • | - | ' | • | • | ' | • | • | • | 9 | 3 | 1.508 | 0.503 |
| Total | 1 | 2 | | | 2 | | 1 | • | • | | • | - | • | | 9 | က | 1.508 | 0.503 |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – 03320 | ЗАРНУ – ТЕМРО Б | RARY JOB S | :ITE – 03 | 3320 | | | | | | | | | | | | | | |
| MQS INSPECTION, INC. | IL-01136-01 | - | | | | | | | | | | | | ĺ | 1 | | • | - |
| EG&G FLORIDA, INC. | FL-1219-1 | 23 | 12 | | • | | • | | • | | • | 1 | • | • | 35 | 12 | 0.310 | 0.026 |
| Total | 2 | 24 | 12 | • | • | | • | | • | • | • | • | • | | 36 | 12 | 0.310 | 0.026 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 1998

| | | | Nu | Number of Individuals with Whole Body Doses in the Ranges (rems)* | Individu | als with | Whole | Body Do | ses in t | he Rang | s (rems | *(| | | | Nimbor | Total | O CAROLINA |
|---|---------------|-----------------|---------------------|---|----------|----------|-------|---------|----------|---------|---------|-------|-------|-------|-----------------|---------------|--------------------|---------------|
| PROGRAM CODE - | | No Meas. | Meas. | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- | 4.00- | 5.00- | 6.00- | | Total Number | with Meas. | Collective TEDE | Meas. TEDE |
| LICENSEE NAME | LICENSE# | Exposure | <0.10 | 0.25 | 0.50 | 0.75 | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 | 6.00 | 12.00 | >12.0 | Monitored | Dose | (person-rem) | (rem) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR I | TRIBUTION - N | UCLEAR F | PHARMACIES – 02500 | SES - (| 2500 | | | | | | | | | | | | | |
| EASTERN ISOTOPES | MD-03-068-01 | 14 | 5 | - | 2 | - | • | • | • | • | | • | • | • | 23 | 6 | 1.350 | 0.150 |
| WYLE LABORATORIES | FL2953-1 | 22 | 3 | | • | • | • | • | • | • | | • | • | • | 25 | 3 | 0.014 | 0.005 |
| Total | 2 | 36 | 8 | 1 | 2 | 1 | ٠ | • | ٠ | - | | ٠ | ٠ | • | 48 | 12 | 1.364 | 0.114 |
| WASTE DISPOSAL (BURIAL) – 03231 | .) – 03231 | | | | | | | | | | | | | 10 | | | | |
| US ECOLOGY | WN-1019-2 | 14 | 2 | 80 | • | • | • | ٠ | • | 1 | | • | | • | 27 | 13 | 1.355 | 0.104 |
| Total | 1 | 14 | 9 | 8 | | | | | ٠ | - | | | ٠ | | 27 | 13 | 1.355 | 0.104 |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR | E PROCESSING | S AND/OR I | REPACKAGING - 03234 | AGING. | 03234 | | | | | | , | | | | | | | |
| ENVIRONMENTAL MANAGEMENT 3546-50 & CONTROLS | 3546-50 | 2 | 2 | 1 | - | 1 | | 1 | • | • | | • | | • | 9 | 4 | 0.599 | 0.150 |
| Total | 1 | 2 | 2 | 1 | 1 | • | ٠ | • | ٠ | • | • | • | ٠ | • | 9 | 4 | 0.599 | 0.150 |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SIT | Y – TEMPORAH | RY JOB SIT | re – 03320 | 0 | | | | | | | | | 3 | | | | | |
| EG&G FLORIDA, INC. | FL-1219-1 | 00 | 52 | • | • | | 1 | | • | • | , | • | 1 | • | 33 | 25 | 0.069 | 0.003 |
| WESTEX COMPANY | CA 5324-56 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | • | - | - | • | • | - | 6 | 8 | 4.120 | 0.515 |
| Total | 2 | 6 | 27 | 1 | 2 | 1 | | 2 | ٠ | ٠ | ٠ | | | | 42 | 33 | 4.189 | 0.127 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 1999

| | | | Nu | nber of | Individ | Number of Individuals with Whole Body Doses in the Ranges (rems)* | Whole | Body Do | ses in t | ne Rang | es (rem | *(s | | | | | Total | |
|--|------------------------------------|------------|--------------------|---------------|---------|---|-------|---------|----------|---------|---------|------|-----------|-------|-----------------|-----------------------|--------------------|--------------------------|
| | | o as. | | | 0.25- | 0.50- | 0.75- | | | | | | | | Total Number | with With Meas. | Collective TEDE | Average Meas. TEDE |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PI | IIGENSE# Expo ON – NUCLEAR PF | HARMA | CIES – 0 | 0.25)2500 | 0.50 | 0.75 | 1.00 | 2.00 | 3.00 | 4.00 | 9.00 | 9.00 | V 00.2T | >12.0 | Monitored | Dose | (person-rem) | (rem) |
| EASTERN ISOTOPES IL-02 | IL-02074-01 | 3 | • | • | • | • | • | 1 | • | • | • | • | | • | S | , | ٠ | ī |
| WYLE LABORATORIES FL-29 | FL-2953-1 | 1 | 15 | • | • | ٠ | ٠ | • | ٠ | ٠ | • | • | | ' | 26 | 15 | 0.129 | 0.009 |
| Total 2 | | 16 | 15 | ٠ | • | | ٠ | | | ٠ | · | | | | 31 | 15 | 0.129 | 0.00 |
| MANUFACTURING AND DISTRIBUTION - OTHER - 03214 | - OTHER - 03 | 3214 | | | | | | | | | | | | 9 | | | | |
| HOCHIKI AMERICA CORP 2090-30 | -30 | 28 | - | • | • | 1 | • | 1 | • | - 10 | • | 1 | • | • | 29 | - | 0.075 | 0.075 |
| Total 1 | | 28 | - | • | | • | ٠ | 1 | | • | | , | | | 29 | - | 0.075 | 0.075 |
| WASTE DISPOSAL (BURIAL) - 03231 | | 3 | | 9 | | | | | | | | | | | | | | |
| US ECOLOGY WN-I | WN-I019-2 | 12 | 19 | 9 | 7 | , | , | ' | • | • | • | 1 | , | ٠ | 37 | 25 | 1.536 | 0.061 |
| Total 1 | | 12 | 19 | 9 | | - | | - | ٠ | • | ٠ | - | | • | 37 | 25 | 1.536 | 0.061 |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR R | NG AND/OR | | EPACKAGING - 03234 | 03234 | | | | | | | | | | | | | | |
| ENVIRONMENTAL MANAGEMENT & 3546-50 CONTROLS | -50 | 1 | 2 | • | - | • | - | • | • | | • | 1 | • | • | 5 | 4 | 1.333 | 0.333 |
| Total 1 | | 1 | 2 | | 1 | - | 1 | • | ٠ | ٠ | ٠ | - | | • | 9 | 4 | 1.333 | 0.333 |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE | ARY JOB SIT | TE - 03320 | 0 | | | | | | | | | | | | | | | |
| WESTEX COMPANY CA 5: | CA 5324-56 | 2 | 2 | 3 | - | 1 | • | • | • | • | • | - | • | | 6 | 7 | 1.585 | 0.226 |
| Total 1 | | 2 | 2 | က | - | - | • | • | ٠ | ٠ | • | ٠ | | • | 6 | 7 | 1.585 | 0.226 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2000

| | | 2 | umber o | f Individ | Number of Individuals with Whole Body Doses in the Ranges (rems)* | Whole B | ody Dos | es in the | Ranges | (rems)* | | | | | | |
|---|-------------------|---------------------|----------|-----------|---|---------|---------|-----------------|--------------------|-----------------------|---------------------------|---------|---------------------|---------------|------------------------------|---------------|
| | O N | | | | | | | | | | | | T P | Number | Total | Average |
| PROGRAM CODE - LICENSEE NAME LICENSE# | Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 1.00 | 1.00- 2 | 2.00- 3.00 4 | 3.00- 4. 4.00 5 | 4.00- 5.0 5.00 6.0 | 5.00- 6.00- 6.00 12.00 | 0 >12.0 | Number Monitored | Meas. Dose | TEDE TEDE (person-rem) | TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARMACIES - 02500 | CLEAR PHAF | RIMACIE | S - 0250 | 0 | | | | | | | | | | | | |
| MORAVEK BIOCHEMICALS, INC. 2960-30 | 9 | 4 | 2 | 7 | - | | 1 | | | , | 1 | | . 15 | 6 | 1.799 | 0.200 |
| WYLE LABORATORIES FL-2953-1 | 22 | - | 1 | • | 1 | | • | , | | , | | | . 23 | 1 | 0.011 | 0.011 |
| Total 2 | 28 | 9 | 2 | 2 | 1 | | | | | | | | - 38 | 10 | 1.810 | 0.181 |
| WELL LOGGING BYPRODUCT AND/OR SNIN SEALED S | SEALED SO | OURCES ONLY - 03111 | ONLY- | 03111 | | | | | | | | | | | | |
| ISOTOPE PRODUCTS LABS 1509-19 | 9 | 21 | 14 | 6 | 5 | 89 | 5 | | 1 | | - | | . 98 | 62 | 23.724 | 0.383 |
| Total 1 | 9 | 21 | 14 | 6 | 9 | 8 | 9 | | | | | | 89 - | 62 | 23.724 | 0.383 |
| MEASURING SYSTEMS PORTABLE GAUGES - 03121 | 5 - 03121 | | | | | | | | | | | | | | | |
| CPN INTERNATIONAL, INC. 1100-07 | 2 | 7 | 4 | က | 2 | 7 | , | , | • | , | 1 | į | . 20 | 18 | 4.733 | 0.263 |
| Total 1 | 2 | 7 | 4 | က | 2 | 2 | | | | | | | - 20 | 18 | 4.733 | 0.263 |
| MANUFACTURING AND DISTRIBUTION - OTHER - 0324 | HER - 03214 | | | | 3 | | | 8 | | | | | 9 | | | |
| HOCHIKI AMERICA CORP 2090-30 | 23 | , | , | • | 1 | • | 1 | | 1 | , | 1 | | . 23 | | | • |
| J. L. SHEPHERD AND ASSOCIATES CA 1777-19 | 7 | 00 | ω | 7 | • | • | - | | ' | | • | , | - 26 | 19 | 3.510 | 0.185 |
| Total 2 | 30 | 8 | 8 | 2 | | | - | | | | | | 49 | 19 | 3.510 | 0.185 |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR RE | AND/OR REP | PACKAGING - 03234 | NG - 03 | 34 | | | | | | | | | | | | |
| ENVIRONIMENTAL MANAGEMENT & 3546-50 CONTROLS | - | - | - | 7 | • | | | | | , | | į | | 4 | 0.874 | 0.219 |
| Total 1 | - | - | - | 2 | | | | | | | | | 9 | 4 | 0.874 | 0.219 |
| INDUSTRIAL RADIOGRAPHY – FIXED LOCATION – 0331 | TION - 03310 | | | | | | | | | | | | | | | |
| SONGS RADIOGRAPHY GROUP CA-5244-30 | ∞ | • | • | • | • | • | 1 | | 1 | | | | 8 | ٠ | | |
| THE FLOWSERVE CORPORATION OH-03310580000 | - | 4 | - | - | - | - | 1 | - | 1 | - | - | | 4 | 4 | 0.094 | 0.024 |
| Total 2 | 8 | 4 | - | | - | | - | - | | | - | | - 12 | 4 | 0.094 | 0.024 |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE | JOB SITE - (| - 03320 | | | | | | | | | | | | | | |
| ALPHA-OMEGA SERVICES, INC. 3925-19 | 2 | 2 | 5 | 4 | - | 2 | 2 | | 1 | | 1 | | . 18 | 16 | 7.331 | 0.458 |
| ANVIL CORPORATION WN-IR031-1 | 9 | 13 | 17 | 16 | თ | o | 7 | - | 1 | , | • | | . 78 | 72 | 34.342 | 0.477 |
| CONSTRUCTION MATERIALS 0799-07 TESTING, INC. | ю | - | • | - | 2 | | • | - | 1 | , | | · | 8 | 2 | 3.865 | 0.773 |
| INTERNATIONAL INSPECTION, 5046-19 INC. | 4 | т | 2 | 7 | - | ٠ | • | , | 1 | , | | į | . 12 | 60 | 1.675 | 0.209 |
| NDE SERVICES, INC. 406-01 | က | 2 | - | • | 2 | - | 1 | | | | , | | . 12 | o | 2.385 | 0.265 |
| NDT LABORATORIES, INC. 1651-43 | - | 4 | • | - | ı | • | 1 | , | 1 | | 1 | | 9 | 2 | 0.473 | 0.095 |
| TC INSPECTION, INC. 5299-07 | 5 | 9 | က | 2 | 2 | | - | - | | , | • | | . 23 | 18 | 6.755 | 0.375 |
| TESTING ENGINEERS, INC. 1898-01 | • | - | 2 | - | 1 | - | • | , | 1 | , | | | | 2 | 1.610 | 0.322 |
| WESTERN INDUSTRIAL X-RAY 4424-48 | • | 4 | 2 | ო | • | 7 | - | , | 1 | , | | | . 12 | _ | 4.912 | 0.409 |
| WESTERN X-RAY CORPORATION 5324-56 | - | 2 | 1 | 1 | 1 | 1 | - | | 1 | | - | | . 6 | 9 | 2.280 | 0.380 |
| Total 10 | 24 | 41 | 33 | 34 | 18 | 16 | 11 | 3 | | | | | - 180 | 156 | 65.628 | 0.421 |
| ESS | URIES - 0351 | 1 | | | | | | | | | | | | | | |
| INDUSTRIAL NUCLEAR CO., INC. 2229-01 | 5 | - | - | - | • | 2 | • | • | • | | • | | - 10 | 9 | 2.335 | 0.467 |
| Total 1 | 2 | - | - | - | • | 2 | | | | | | , | - 10 | 2 | 2.335 | 0.467 |
| | | | | | | | | | | | | | | | | |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees
2001

| | | Ñ | ımber o | i Individ | uals with | Whole E | Number of Individuals with Whole Body Doses in the Ranges (rems)* | ses in th | e Range | s (rems) | | | | | Nimphor | Total | Violent |
|---|-------------|------------------------|----------|--------------|-----------|---------|---|-----------|---------|----------|------|-------|-------|-----------|---------|--------------|------------------|
| | No | | | | | | | | | | | | | Total | with | Collective | Average Meas. |
| | Meas. | Meas. | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | | | | | Ş | Number | Meas. | TEDE | TEDE |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PH | LEAR PHARM | SUITE SUITE 5.2500 | 2500 | 0.50 | 0.75 | 00.1 | 7.00 | | 4.00 | 00.6 | 00.0 | 17.00 | V12.0 | Monitorea | nose | (person-rem) | (rem) |
| GAMMA PLUS - DENVER 987-01 | 2 | | က | _ | | • | ٠ | • | | ٠ | • | | • | 9 | 4 | 0.726 | 0.182 |
| GE HEALTHCARE - SAN JOSE 4811-43 | - | o | - | | • | • | • | • | • | • | • | • | • | 1 | 10 | 0.433 | 0.043 |
| MALLINCKRODT, INC. 859-01 | , | = | က | • | ' | 1 | • | ' | • | 1 | • | ' | • | 14 | 14 | 0.664 | 0.047 |
| MORAVEK BIOCHEMICALS, INC. 2960-30 | 9 | 2 | | 4 | - | • | • | ٠ | • | • | • | • | ' | 16 | 10 | 2.123 | 0.212 |
| WYLE LABORATORIES FL-2953-1 | 41 | 9 | • | 1 | 1 | • | 1 | , | • | • | • | • | ٠ | 20 | 9 | 0.161 | 0.027 |
| Total 5 | 23 | 31 | 7 | 2 | - | • | • | | | ٠ | | | | 29 | 44 | 4.107 | 0.093 |
| WELL LOGGING BYPRODUCT AND/OR SNM SEALED SOURCES ONLY - 03111 | EALED SOUR | CES ONL | 7 - 0311 | 1 | | | | | | | | | | | | | |
| ISOTOPE PRODUCTS LABS 1509-19 | - | 59 | 4 | 7 | 2 | 7 | 15 | - | • | • | • | , | • | 83 | 82 | 38.305 | 0.467 |
| Total 1 | - | 29 | 14 | 1 | 5 | 7 | 15 | - | • | | • | | | 83 | 82 | 38.305 | 0.467 |
| MEASURING SYSTEMS PORTABLE GAUGES - 03121 | . 03121 | | | | | | | | | | | | | | | | |
| CPN INTERNATIONAL, INC. | 1 | 4 | 9 | 4 | 1 | • | 1 | • | • | 1 | • | • | • | 16 | 15 | 3.145 | 0.210 |
| Total 1 | 1 | 4 | 9 | 4 | 1 | · | • | • | ٠ | • | ٠ | • | ٠ | 16 | 15 | 3.145 | 0.210 |
| MANUFACTURING AND DISTRIBUTION - OTHER - 03214 | ER - 03214 | | | | | | | | | | | | | | | | |
| HOCHIKI AMERICA CORP. 2090-30 | 25 | - | • | • | - | 1 | 1 | • | • | • | • | • | | 27 | 2 | 0.543 | 0.272 |
| J. L. SHEPHERD AND ASSOCIATES CA 1777-19 | 14 | 10 | 1 | 1 | 1 | • | 1 | • | • | • | • | • | • | 27 | 13 | 1.870 | 0.144 |
| Total 2 | 39 | 11 | 1 | 1 | 1 | | 1 | | | - | | | - | 54 | 15 | 2.413 | 0.161 |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR RE | VD/OR REPAC | EPACKAGING - 03234 | 03234 | | | | | | | | | | | | | | |
| ENVIRONMENTAL MANAGEMENT 8 3546-50 CONTROLS | 1 | | - | က | 1 | • | • | 1 | • | | | • | , | 5 | 4 | 0.948 | 0.237 |
| Total 1 | 1 | | 1 | က | - | • | | • | | • | | | | 9 | 4 | 0.948 | 0.237 |
| INDUSTRIAL RADIOGRAPHY – FIXED LOCATION - 03310 | ON - 03310 | | | | | | | | | | | | | | | | |
| SONGS - RADIOGRAPHY GROUP CA-5244-30 | 8 | • | • | • | - | 1 | - | | • | | • | | • | 8 | • | - | • |
| Total | ٥ | | | | | | | | | | | | | ~ | | | |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2001 (continued)

| | | | N | ımber of | Individu | als with | Whole B | Number of Individuals with Whole Body Doses in the Ranges (rems)* | es in the | Ranges | : (rems)* | | | | | | | |
|--|----------------------|--------------|-------|----------|----------|----------|---------|---|-----------|--------|-----------|-------|---------|-------|-----------|-------|--------------|------------------|
| | | No | | | | | | | | | | | | | Total | with | Collective | Average Meas. |
| PROGRAM CODE - | | Meas. | Meas. | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- | 4.00- € | 5.00- | -00'9 | | Number | Meas. | TEDE | TEDE |
| LICENSEE NAME | TICENSE# | Exposure | <0.10 | 0.25 | 0.50 | 0.75 | 1.00 | 2.00 | 3.00 | 4.00 | 2.00 | 6.00 | 12.00 > | >12.0 | Monitored | Dose | (person-rem) | (rem) |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – 03320 | TEMPORARY JOI | 3 SITE - 033 | 20 | | | | | | | | | | | 8 8 | | | | |
| ALPHA-OMEGA SERVICES, INC. | 3925-19 | в | 16 | 4 | ю | 1 | | 1 | 1 | 1 | , | • | ٠ | Ļ | 26 | 23 | 2.024 | 0.088 |
| CONSTRUCTION MATERIALS TESTING, INC. | 70-6620 | • | - | 1 | - | - | 7 | - | | • | • | | | | 9 | 9 | 4.330 | 0.722 |
| INTERNATIONAL INSPECTION | 5046-19 | 2 | 2 | - | ω | 1 | 1 | 1 | 1 | 1 | , | 1 | , | • | 10 | 80 | 2.140 | 0.268 |
| NDT LABORATORIES, INC. | 1651-43 | 5 | _ | • | - | - | • | • | • | 1 | • | | | • | 8 | 3 | 1.080 | 0.360 |
| TC INSPECTION, INC. | 5299-07 | 7 | 7 | 5 | 7 | 2 | 7 | - | • | 1 | • | • | | • | 26 | 24 | 7.800 | 0.325 |
| TESTING ENGINEERS, INC. | 1898-01 | 1 | • | 2 | 1 | 2 | • | 1 | • | 1 | • | • | | ١. | 4 | 4 | 1.535 | 0.384 |
| WESTERN INDUSTRIAL X-RAY | 4424-48 | - | - | 2 | က | • | - | 2 | | • | • | 1 | | | 10 | 6 | 5.535 | 0.615 |
| WESTERN X-RAY CORPORATION | 5324-56 | 1 | 4 | 1 | - | 1 | | , | - | 1 | | | | • | 7 | 7 | 2.845 | 0.406 |
| Total | 8 | 13 | 32 | 15 | 21 | 9 | 2 | 4 | 1 | • | ٠ | | ٠ | | 46 | 84 | 27.289 | 0.325 |
| IRRADIATORS - OTHER - LESS THAN 10000 CURIES - 03511 | THAN 10000 CUR | IES - 03511 | | | | | | | | | | | | | | | | |
| INDUSTRIAL NUCLEAR CO., INC. | 2229-01 | 5 | • | 1 | 2 | 2 | | 1 | | 1 | , | • | | • | 11 | 9 | 3.790 | 0.632 |
| Total | 1 | 2 | - | 1 | 2 | 2 | | 1 | ٠ | • | ٠ | | - | | 11 | 9 | 3.790 | 0.632 |
| No Program Code | | | | | | | | | | | | | 1 2 | | | | | |
| BWX TECHNOLOGIES, INC. | 03310780006 | က | 13 | - | • | 1 | • | 1 | | 1 | | • | | • | 16 | 13 | 0.112 | 0.009 |
| T-+-F | , | ٠ | , | | | | | | | | | | | | 16 | 45 | 0 440 | 000 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees
2002

| | | Z | umber of | Individ | uals with | Whole B | ody Dose | s in the F | Number of Individuals with Whole Body Doses in the Ranges (rems)* | *us) | | | | | | |
|---|-------------------------|----------------|----------|---------|-----------|---------|---------------|--------------------|---|-------|-------|-------|------------------------------|---------------------------------|---|-----------------------------------|
| PROGRAM CODE - LICENSEE NAME LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- 2.00 3. | 2.00- 3.00 4.00 | 4.00- | 5.00- | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARMACIES – 02500 | EAR PHARMACI | ES-025 | 00 | | | | | | | | | | | | | |
| CARDINAL HEALTH - AL | 5 | 9 | 1 | 1 | 1 | • | 1 | | 1 | | | • | 11 | 9 | 0.069 | 0.012 |
| CARDINAL HEALTH - AL | - | 13 | - | • | • | , | • | , | | ' | _ | • | 15 | 14 | 0.506 | 0.036 |
| CARDINAL HEALTH - AR | 00 | 72 | • | | 1 | • | • | | | | | • | 35 | 21 | 0.262 | 0.012 |
| CARDINAL HEALTH - AZ 01-084 | 1 | ω | 1 | • | 1 | • | 1 | , | | | | 1 | 00 | ω | 0.248 | 0.031 |
| CARDINAL HEALTH - AZ 07-123 | 19 | 24 | 1 | • | 1 | , | 1 | , | | ' | _ | , | 43 | 24 | 0.369 | 0.015 |
| CARDINAL HEALTH - CA | - | 15 | 1 | • | ī | , | , | , | | ' | Ė | , | 16 | 15 | 0.519 | 0.035 |
| CARDINAL HEALTH - CA 3317-19 | o | 4 | 1 | • | T. | • | - | , | | | | 1 | 13 | 4 | 0.016 | 0.004 |
| CARDINAL HEALTH - CA 3426-43 | е | 5 | 1 | • | 1 | • | • | , | | | _ | • | 80 | 5 | 0.037 | 0.007 |
| CARDINAL HEALTH - CA | 1 | 4 | 1 | • | 1 | • | • | | | | _ | • | 4 | 4 | 0.095 | 0.024 |
| CARDINAL HEALTH - CA | 2 | 2 | 2 | • | 1 | • | 1 | | | | _ | • | 9 | 4 | 0.339 | 0.085 |
| CARDINAL HEALTH - CA | 24 | 13 | 1 | • | 1 | • | 1 | , | | | | 1 | 37 | 13 | 0.132 | 0.010 |
| CARDINAL HEALTH - CA 3822-19 | 19 | 22 | • | • | 1 | • | • | , | | | _ | • | 4 | 25 | 0.313 | 0.013 |
| CARDINAL HEALTH - CA 3832-01 | 10 | 18 | 1 | • | 1 | • | • | | | | _ | | 28 | 18 | 0.385 | 0.021 |
| CARDINAL HEALTH - CA | 7 | 12 | 1 | • | 1 | • | - | | | | _ | 1 | 19 | 12 | 0.084 | 0.007 |
| CARDINAL HEALTH - CA 4999-30 | - | 30 | 1 | • | 1 | , | 1 | , | | | _ | 1 | 31 | 30 | 0.239 | 0.008 |
| CARDINAL HEALTH - CA 5218-36 | - | 4 | - | • | 1 | , | 1 | , | | | _ | • | 16 | 15 | 0.546 | 0.036 |
| CARDINAL HEALTH - CA 5905-15 | ı | 2 | 1 | • | 1 | r | 1 | , | 1 | ' | _ | 1 | 2 | 2 | 0.023 | 0.005 |
| CARDINAL HEALTH - CA 5910-50 | 2 | က | 1 | • | 1 | , | 1 | , | 1 | ' | _ | 1 | S | က | 0.060 | 0.020 |
| CARDINAL HEALTH - CA 6321-45 | - | - | 1 | • | 1 | • | • | , | | | _ | • | 2 | - | 0.001 | 0.001 |
| CARDINAL HEALTH - CA 6691-33 | n | 2 | • | • | 1 | • | 1 | , | | | Ċ | • | 80 | 2 | 0.185 | 0.037 |
| CARDINAL HEALTH - CA 6924-36 | 1 | - | 2 | - | 1 | • | 1 | , | | | _ | • | 4 | 4 | 0.833 | 0.208 |
| CARDINAL HEALTH - CA 6925-19 | - | 2 | 1 | • | 1 | , | 1 | , | | | _ | • | 9 | 2 | 0.116 | 0.023 |
| CARDINAL HEALTH - CO 392-01 | 2 | - | 1 | • | 1 | ı | 1 | , | | | _ | 1 | က | - | 0.001 | 0.001 |
| CARDINAL HEALTH - CO 392-03 | 12 | 23 | 1 | • | 1 | 1 | • | , | 1 | | _ | 1 | 34 | 22 | 0.229 | 0.010 |
| CARDINAL HEALTH - CT 00163 | 23 | 10 | 1 | • | 1 | ï | • | , | | | _ | • | 33 | 10 | 0.083 | 0.008 |
| CARDINAL HEALTH - FL | 12 | တ | 1 | • | 1 | • | 1 | , | | | _ | • | 21 | o | 0.084 | 0.009 |
| CARDINAL HEALTH - FL 3453-1 | - | œ | 1 | 1 | 1 | , | 1 | , | | | _ | 1 | 0 | 00 | 0.166 | 0.021 |
| CARDINAL HEALTH - FL 3453-2 | 19 | 9 | - | , | 1 | , | 1 | , | | ' | _ | ' | 26 | 7 | 0.189 | 0.027 |
| CARDINAL HEALTH - FL 3453-3 | 7 | 13 | 1 | • | 1 | , | • | , | 1 | | Ė | • | 20 | 13 | 0.118 | 0.009 |
| CARDINAL HEALTH - FL 3453-5 | 9 | = | 1 | • | ı | ť | • | , | | | Ė | 1 | 17 | 1 | 0.128 | 0.012 |
| CARDINAL HEALTH - FL 3453-6 | 11 | 7 | 1 | 1 | 1 | 1 | • | | | • | Ė | 1 | 18 | 7 | 0.036 | 0.005 |
| CARDINAL HEALTH - FL 3453-7 | 12 | 2 | 1 | • | 1 | , | 1 | , | | | | 1 | 17 | 2 | 0.046 | 0.009 |
| CARDINAL HEALTH - FL 3453-8 | ω | 17 | • | • | .1 | • | 1 | | | | | • | 25 | 17 | 0.247 | 0.015 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2002 (continued)

| | | | Number | of Indiv | duals wi | th Whole | Body D | oses in 1 | he Rang | Number of Individuals with Whole Body Doses in the Ranges (rems)* | | | | | - Almahor | Total | 0.00 |
|---|-------------------|---------------------------|------------------------|----------|---------------|---------------|--------|-----------|---------------|---|---------------|-------|-------|---------------------|---------------|-------------------|---------------|
| | No | | | | | | | | | | | | | Total | with | Collective | Meas. |
| PROGRAM CODE - LICENSEE NAME | Meas. Exposure | s. Meas. ure <0.10 | s. 0.10- 0 0.25 | 0.25- | 0.50- 0.75 | 0.75- 1.00 | 1.00- | 3.00 | 3.00- 4.00 | 4.00- | 5.00- (6.00 1 | 6.00- | >12.0 | Number Monitored | Meas. Dose | TEDE (person-rem) | TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARMACIES - 02500 | CLEAR PHARI | ACIES - (| 0057 | | | | | | | | | | | | | | |
| CARDINAL HEALTH - FL 3453-9 | | ς. | - 01 | _ | 1 | • | | 1 | 1 | • | r | • | • | 15 | 10 | 0.134 | 0.013 |
| CARDINAL HEALTH - GA GA-467-1MD | ηD | m | 6 | _ | • | 1 | 1 | • | 1 | 1 | • | , | • | 22 | 19 | 0.220 | 0.012 |
| CARDINAL HEALTH - GA GA-467-2MD | ΨQ. | ω | - 2 | | 1 | • | 1 | 1 | • | • | • | , | • | 13 | 2 | 0.032 | 900.0 |
| CARDINAL HEALTH - GA GA-467-3MD | Q. | 2 | • | | 1 | • | 1 | • | 1 | • | • | • | • | 2 | • | • | • |
| CARDINAL HEALTH - GA GA-823-2MD | Q) | o | | | 1 | 1 | 1 | 1 | .1. | , | 1 | • | • | 41 | S | 0.053 | 0.011 |
| CARDINAL HEALTH - IA 0043-1-77-NP | ₽N. | o | 9 | | 1 | , | 1 | • | • | • | 1 | • | • | 15 | 9 | 0.021 | 0.004 |
| CARDINAL HEALTH - IL | _ | 22 | 32 | _ | • | • | 1 | • | • | • | • | • | • | 54 | 32 | 0.278 | 0.009 |
| CARDINAL HEALTH - IN R0358-45 | | | - 2 | | 1 | • | 1 | | 1 | • | r | , | • | 28 | 17 | 0.212 | 0.012 |
| CARDINAL HEALTH - KS 20-C495-01 | _ | 9 | 3 | | 1 | • | 1 | • | 1 | • | 1 | • | • | 6 | က | 0.022 | 0.007 |
| CARDINAL HEALTH - KY | ~ | 16 | 3 | | • | | 1 | • | 1 | • | • | • | • | 19 | ю | 0.035 | 0.012 |
| CARDINAL HEALTH - KY | CI | - | 6 | | 1 | | 1 | 1 | 1 | 1 | 1 | , | • | 20 | 19 | 0.231 | 0.012 |
| CARDINAL HEALTH - LA | 04 | 15 | | _ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | , | • | 26 | 7 | 0.121 | 0.011 |
| CARDINAL HEALTH - LA | 04 | • | - | _ | • | • | 1 | • | • | • | • | • | • | - | - | 0.032 | 0.032 |
| CARDINAL HEALTH - MA 4008 | | • | 1 | - | - | • | • | 1 | • | • | • | , | • | 4 | 4 | 1.084 | 0.271 |
| CARDINAL HEALTH - MA 42-0146 | | 7 | - 53 | _ | 1 | • | 1 | • | 1 | • | 1 | • | • | 35 | 24 | 0.774 | 0.032 |
| CARDINAL HEALTH - MD MD-05-058-01 | 10-1 | 12 | 13 | | 1 | 1 | 1 | 1 | 1 | • | 1 | 1 | • | 25 | 13 | 0.121 | 0.009 |
| CARDINAL HEALTH - MD MD-33-198-01 | 10-1 | 7 | | _ | • | 1 | 1 | 1 | 1 | • | 1 | , | • | 26 | 19 | 0.183 | 0.010 |
| CARDINAL HEALTH - MI | | 15 | - 20 | Ċ | • | 1 | 1 | 1 | 1 | ť | • | • | • | 35 | 20 | 0.243 | 0.012 |
| CARDINAL HEALTH - MN 1037-205-89 | 68 | 30 | 30 | | 1 | • | 1 | 1 | • | , | 1 | , | • | 09 | 30 | 0.514 | 0.017 |
| CARDINAL HEALTH - MO | | - | | _ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | , | • | 22 | 21 | 0.494 | 0.024 |
| CARDINAL HEALTH - MO 6141 | | | 1 2 | _ | 1 | • | 1 | 1 | 1 | ' | 1 | , | • | 4 | 4 | 0.736 | 0.184 |
| CARDINAL HEALTH - MS MS-493-01 | | 9 | 3 | _ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | , | • | 6 | က | 0.042 | 0.014 |
| CARDINAL HEALTH - NC 041-0794-3 | m | 4 | 3 | Ċ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | , | • | 7 | က | 900.0 | 0.002 |
| CARDINAL HEALTH - NC 060-0794-1 | | 13 | 3 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | , | • | 26 | 13 | 0.173 | 0.013 |
| CARDINAL HEALTH - NC 092-1175-1 | | က | 9 | _ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | , | • | 6 | 9 | 0.117 | 0.020 |
| CARDINAL HEALTH - NE 01-65-01 | | 12 | 1 | _ | 1 | 3 | 1 | • | 1 | • | 1 | , | • | 29 | 17 | 0.117 | 0.007 |
| CARDINAL HEALTH - NM RP396-02 | | 2 | 9 | | 1 | 1 | 1 | , | 1 | , | 1 | , | | 1 | 9 | 0.036 | 900.0 |
| CARDINAL HEALTH - NV 03-11-0150-01 | 2-01 | 2 | 9 | | 1 | | 1 | 1 | 1 | 1 | 1 | , | | 18 | 16 | 0.206 | 0.013 |
| CARDINAL HEALTH - NY 2306-3119MD | MD | 17 | - 6 | | 1 | 1 | 1 | 1 | 1 | , | 1 | , | • | 36 | 19 | 0.318 | 0.017 |
| CARDINAL HEALTH - NY C2328 | | 16 | 89 | | 1 | 2 | 1 | 3 | 1 | 1 | 1 | | • | 24 | ∞ | 0.066 | 0.008 |
| CARDINAL HEALTH - NY C2364 | | 10 | | | 1 | 1 | 1 | 1 | 1 | , | r | , | | 17 | 7 | 0.060 | 0.009 |
| CARDINAL HEALTH - NY C2449 | | 10 | 8 | | 1 | 1 | 1 | • | 1 | 1 | 1 | • | • | 18 | ω | 0.051 | 900.0 |
| CARDINAL HEALTH - NY C2588 | | 0 | - 2 | _ | 1 | 1 | 1 | • | 1 | , | 1 | , | ٠ | 14 | 2 | 0.027 | 0.005 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2002 (continued)

| | | | | ı | | | | | | | ı | ı | | | | | |
|--|---------------|-------------|----------------|-----------|---------|-----------|-------|---------|---|-------------|----------|---------|------------|-----------|---------------|--------------------|--------------------------|
| | | | Ž | mber o | Individ | uals with | Whole | 3ody Do | Number of Individuals with Whole Body Doses in the Ranges (rems)* | Ranges | rems)* | | | | | - F | |
| | | No Meas. | | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- 3. | 3.00- 4.00- | 0- 5.00- | - 6.00- | | | with Meas. | Collective TEDE | Average Meas. TEDE |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARI | SE# EX | | MACIES - 02500 | 0.25 0 | 0.0 | | | | = | = | | | 0.21< 0. | Monitored | Dose | (person-rem) | (rem) |
| CARDINAL HEALTH - NY C2593 | | 12 | 7 | • | • | • | ٠ | | • | ٠ | | -1 | į | 23 | 1 | 0.080 | 0.007 |
| CARDINAL HEALTH - NY C2613 | | 9 | 9 | • | • | 1 | , | 1 | , | - 1 | , | | | 12 | 9 | 0.045 | 0.008 |
| CARDINAL HEALTH - OH 02500180000 | 80000 | 16 | 7 | 1 | • | 1 | , | 1 | , | 1 | , | | | 23 | 7 | 0.047 | 0.007 |
| CARDINAL HEALTH - OH 02500250000 | 20000 | 37 | 19 | • | • | 1 | | 1 | • | - | , | - | | 56 | 19 | 0.186 | 0.010 |
| CARDINAL HEALTH - OH 02500310000 | 10000 | 6 | က | - | • | 1 | , | -1 | • | | , | | | 13 | 4 | 0.227 | 0.057 |
| CARDINAL HEALTH - OH 02500490001 | 190001 | 18 | 13 | - | • | , | , | 1 | , | • | , | | | 32 | 41 | 0.340 | 0.024 |
| CARDINAL HEALTH - OH 02500580000 | 90000 | 12 | 16 | • | • | , | 1 | , | • | • | , | | | 28 | 16 | 0.353 | 0.022 |
| CARDINAL HEALTH - OH 02500770000 | 70000 | 9 | က | 1 | 1 | 1 | , | 1 | , | 1 | , | 1 | | 0 | က | 0.016 | 0.005 |
| CARDINAL HEALTH - OH 02500790000 | 00006 | က | 2 | • | • | 1 | • | 1 | , | 1 | , | | | 80 | 2 | 0.026 | 0.005 |
| CARDINAL HEALTH - OH 03214310000 | 110000 | • | 4 | • | • | 1 | • | • | • | • | , | | | 4 | 4 | 0.098 | 0.025 |
| CARDINAL HEALTH - OH 4853-19 | 0 | 7 | 2 | • | • | 1 | | 1 | • | • | , | | | 16 | 2 | 0.155 | 0.031 |
| CARDINAL HEALTH - OK OK-195 | OK-19583-02MD | 7 | က | 7 | • | 1 | • | 1 | | | | | , | 12 | 2 | 0.350 | 0.070 |
| CARDINAL HEALTH - OK OK-233 | OK-23359-02MD | 12 | 7 | • | 2 | 1 | • | 1 | | | , | | , | 19 | 7 | 0.037 | 0.005 |
| CARDINAL HEALTH - OR ORE-90509 | 0209 | 14 | 13 | က | • | • | • | 1 | | | , | 1 | | 30 | 16 | 0.679 | 0.042 |
| CARDINAL HEALTH - PA | 4 | 10 | 72 | • | • | 1 | • | 1 | | | , | | | 31 | 21 | 0.147 | 0.007 |
| CARDINAL HEALTH - PA PA-0385 | 55 | 8 | 27 | - | • | 1 | • | 1 | , | 1 | , | | į | 71 | 28 | 0.709 | 0.025 |
| CARDINAL HEALTH - PA PA-0415 | 5 | 19 | 12 | • | • | • | 1 | 1 | · | • | ī | | | 31 | 12 | 0.118 | 0.010 |
| CARDINAL HEALTH - PA | 0 | 9 | თ | • | 1 | • | • | 1 | • | | , | | | 15 | 0 | 0.153 | 0.017 |
| CARDINAL HEALTH - PA PA-0643 | 23 | 13 | œ | • | • | 1 | , | 1 | • | • | , | | | 21 | 00 | 0.061 | 0.008 |
| CARDINAL HEALTH - PA | 0 | 9 | 13 | • | • | 1 | • | 1 | | | , | | , | 19 | 13 | 0.149 | 0.011 |
| CARDINAL HEALTH - RI 3B-114-01 | -01 | 7 | 12 | | • | • | • | 1 | | 1 | , | | , | 23 | 12 | 0.062 | 0.005 |
| CARDINAL HEALTH - SC 448 | | ω | က | • | • | 1 | , | 1 | , | 1 | , | 1 | | 7 | က | 0.075 | 0.025 |
| CARDINAL HEALTH - TN R-19199-B15 | 9-B15 | ∞ | 20 | • | • | 1 | • | 1 | • | • | , | | | 28 | 20 | 0.228 | 0.011 |
| CARDINAL HEALTH - TN R-33111-114 | 1-114 | 7 | 9 | • | - | 1 | - | - | • | 1 | , | | | 20 | o | 2.855 | 0.317 |
| CARDINAL HEALTH - TN R47080-L14 | J-L14 | 12 | 13 | • | • | 1 | • | 1 | , | | , | | | 25 | 13 | 0.079 | 900.0 |
| CARDINAL HEALTH - TN R-57025-C15 | 5-C15 | က | - | • | • | 1 | 1 | 1 | , | • | , | | | 4 | - | 0.007 | 0.007 |
| CARDINAL HEALTH - TN R-71029-B11 | 9-B11 | 9 | 4 | • | • | 1 | , | 1 | | • | , | | | 10 | 4 | 0.071 | 0.018 |
| CARDINAL HEALTH - TN R-79174-02 | .4-02 | - | 4 | • | • | 1 | 1 | 1 | , | • | , | | | 5 | 4 | 0.055 | 0.014 |
| CARDINAL HEALTH - TN R-79174-D17 | 4-D17 | 2 | သ | - | • | 1 | , | 1 | , | 1 | , | | | 7 | 9 | 0.129 | 0.022 |
| CARDINAL HEALTH - TX | _ | 26 | 31 | - | • | • | • | 1 | , | • | , | | | 58 | 32 | 0.665 | 0.021 |
| CARDINAL HEALTH - TX | 0 | 2 | 4 | • | • | 1 | 1 | 1 | • | | , | | | 9 | 4 | 0.014 | 0.004 |
| CARDINAL HEALTH - TX L0-2033 | 3 | O | 19 | - | • | 1 | 1 | 1 | • | 1 | , | 1 | | 29 | 20 | 0.435 | 0.022 |
| CARDINAL HEALTH - TX L0-2048 | 8 | 13 | 4 | • | • | • | • | | • | 1 | , | 1 | | 27 | 14 | 0.136 | 0.010 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2002 (continued)

| | | Z | umber o | of Individ | uals with | Whole | 3ody Dos | ses in th | e Range | Number of Individuals with Whole Body Doses in the Ranges (rems)* | | | | | | |
|--|-------------------|---------------------|---------|------------|-----------|-------|----------|-----------|---------|---|-----------------------|------------------------|--------------------|---------------|-------------------|------------------------|
| | No | | | | | Г | | Г | | | H | | F | Number | Total | Average |
| PROGRAM CODE - LICENSEE NAME | Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 3.00 | 3.00- 4 | 4.00- 5.0 5.00 6. | 5.00- 6. 6.00 12 | 6.00- 12.00 >12.0 | Number Monitored | Meas. Dose | TEDE (person-rem) | meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHA | | RMACIES - 02500 | 00 | | | | | | | | | | | | | |
| CARDINAL HEALTH - TX | = | 0 | • | • | • | ٠ | • | | • | | ٠ | | - 20 | 6 | 0.114 | 0.013 |
| CARDINAL HEALTH - TX | 2 | က | | • | 1 | ٠ | 1 | | 1 | | • | | - 2 | က | 0.033 | 0.011 |
| CARDINAL HEALTH - TX | ∞ | - | | 1 | • | • | 1 | | 1 | | | , | o | - | 0.003 | 0.003 |
| CARDINAL HEALTH - TX | 9 | | | 1 | 1 | • | 1 | · | 1 | | • | | 9 | • | i | ï |
| CARDINAL HEALTH - TX | က | 4 | | 1 | 1 | • | 1 | | 1 | | • | , | | 4 | 0.022 | 900.0 |
| CARDINAL HEALTH - TX | 7 | - | | , | | ٠ | 1 | | • | | | | 00 | - | 0.003 | 0.003 |
| CARDINAL HEALTH - TX | 7 | 2 | | 1 | 1 | • | 1 | | 1 | | • | , | 0 | 2 | 0.010 | 0.005 |
| CARDINAL HEALTH - TX | 7 | 12 | | , | .1 | • | 1 | • | 1 | | • | , | - 19 | 12 | 0.279 | 0.023 |
| CARDINAL HEALTH - TX | 1 | က | _ | • | 1 | ٠ | • | | • | | | • | 4 | 4 | 0.347 | 0.087 |
| CARDINAL HEALTH - US 074-1180-1 | 7 | က | • | • | 1 | • | 1 | | • | | • | • | - 5 | 8 | 0.020 | 0.007 |
| CARDINAL HEALTH - US CH-US-001 | 47 | 139 | ω | - | • | ٠ | • | • | - | | • | 1 | - 196 | 149 | 9.003 | 0.060 |
| CARDINAL HEALTH - VA | o | 25 | | 1 | • | • | • | ٠ | 1 | | • | | . 34 | 25 | 0.149 | 9000 |
| CARDINAL HEALTH - WA WN-NP003-1 | 4 | 10 | • | 1 | 1 | • | • | | • | | • | • | - 24 | 10 | 0.077 | 0.008 |
| CARDINAL HEALTH - WA WN-NP004-1 | O | 2 | • | 1 | , | • | 1 | | 1 | , | | | - 41 | 2 | 0.042 | 0.008 |
| CARDINAL HEALTH - WA WN-NP011-1 | - | ω | • | 1 | , | • | 1 | ٠ | 1 | | | | 0 | 00 | 0.098 | 0.012 |
| CARDINAL HEALTH - WI 087-1312-01 | ω | 9 | • | 1 | 1 | • | 1 | | 1 | , | • | • | - 13 | 2 | 0.020 | 0.004 |
| CARDINAL HEALTH - WI 141-1306-01 | 2 | 5 | • | - | 1 | | 1 | | • | | • | • | 00 | 9 | 0.389 | 0.065 |
| GE HEALTHCARE - ANAHEIM 4810-30 | 1 | 22 | | 1 | 1 | ٠ | ı | | • | | • | , | - 33 | 22 | 0.538 | 0.024 |
| GE HEALTHCARE - SACRAMENTO 4809-34 | 14 | 7 | 4 | 1 | 1 | • | 1 | • | 1 | , | • | , | - 25 | 1 | 0.821 | 0.075 |
| GE HEALTHCARE - SAN DIEGO 5796-37 | 21 | 2 | • | 1 | 1 | • | 1 | ٠ | 1 | , | • | | - 23 | 2 | 0.032 | 0.016 |
| GE HEALTHCARE - SAN JOSE 4811-43 | 9 | 2 | က | - | • | • | 1 | | 1 | , | • | | - 15 | თ | 0.861 | 960.0 |
| GE HEALTHCARE - VAN NUYS 5143-19 | 17 | 2 | 2 | 1 | 1 | • | 1 | | 1 | , | • | | - 21 | 4 | 0.464 | 0.116 |
| MORAVEK BIOCHEMICALS, INC. 2960-30 | 1 | ю | = | 2 | - | • | 1 | | 1 | | | , | - 20 | 20 | 4.295 | 0.215 |
| WYLE LABORATORIES FL-2953-1 | 18 | 4 | - | 1 | • | • | 1 | , | 1 | , | • | • | - 23 | 2 | 0.195 | 0.039 |
| Total 123 | 1,134 | 1,334 | 51 | 13 | 2 | 1 | 1 | | 1 | | | | - 2,537 | 1,403 | 40.065 | 0.029 |
| WELL LOGGING BYPRODUCT AND/OR SNM SEALED SO | ED SOURCES | JURCES ONLY - 03111 | 03111 | | | | | | | | | | | | | |
| ISOTOPE PRODUCTS LABS | 8 | 27 | 7 | 11 | 2 | 9 | 13 | | 1 | | • | - | - 69 | 99 | 32.331 | 0.490 |
| Total 1 | 3 | 27 | 7 | 11 | 2 | 9 | 13 | ٠ | • | | • | | - 69 | 99 | 32.331 | 0.490 |
| MEASURING SYSTEMS PORTABLE GAUGES - 03121 | н | | | | | | | | | | | | | | | |
| CPN INTERNATIONAL, INC. 1100-07 | 1 | 4 | က | 2 | 1 | - | 1 | | 1 | | | | - 12 | 11 | 2.795 | 0.254 |
| Total 1 | - | 4 | 3 | 2 | 1 | - | | • | • | | | | - 12 | 11 | 2.795 | 0.254 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2002 (continued)

| | | | Z | umber o | f Individu | als with | Whole E | sody Dos | Number of Individuals with Whole Body Doses in the Ranges (rems)* | Ranges | (rems)* | | | | | | |
|--|------------------|-------------------|-----------------|---------------|---------------|----------|---------------|---------------|---|----------------------|--------------------------|---|----------------------|---------------------|---------------|----------------------|------------------|
| | | N . | | ; | | | | | | | | | | Total | with | Collective | Average Meas. |
| PROGRAM CODE - LICENSEE NAME | LICENSE# | Meas. Exposure | Meas. <0.10 | 0.10- 0.25 | 0.25- 0.50 | 0.50- | 0.75- 1.00 | 1.00- 2.00 | 2.00- 3.00 4 | 3.00- 4.0 4.00 5. | 4.00- 5.00- 5.00 6.00 | | 6.00- 12.00 >12.0 | Number Monitored | Meas. Dose | TEDE (person-rem) | TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION - OTHER - 03214 | ON - OTHER - 03; | 214 | | | | | | | | | | | | | | | |
| HOCHIKI AMERICA CORP | 2090-30 | 18 | - | 1 | | 1 | • | 1 | • | | , | | | 19 | 1 | 0.082 | 0.082 |
| J. L. SHEPHERD AND ASSOCIATES | CA 1777-19 | 6 | 13 | 2 | | 2 | - | 1 | • | 1 | | | | 27 | 18 | 2.775 | 0.154 |
| Total | 2 | 27 | 14 | 2 | ٠ | 2 | 1 | | | | | | | 46 | 19 | 2.857 | 0.150 |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR REPA | SSING AND/OR F | | CKAGING - 03234 | 234 | | | | | | | | | | | | | |
| ENVIRONMENTAL MANAGEMENT & CONTROLS | 3546-50 | - | 5 | ю | 7 | 1 | , | 1 | , | | | | | 11 | 10 | 1.171 | 0.117 |
| THOMAS GRAY & ASSOCIATES, INC. | CA-2105-30 | 5 | 2 | - | • | 1 | ٠ | ٠ | • | • | , | | | 80 | 3 | 0.133 | 0.044 |
| Total | 2 | 9 | 7 | 4 | 2 | ٠ | | | | | | | | 19 | 13 | 1.304 | 0.100 |
| INDUSTRIAL RADIOGRAPHY - FIXED LOCATION - 03310 | D LOCATION – 03 | 310 | | | | | | | | | | | | | | | |
| METALTEK - WISCONSIN CENTRIFUGAL DIVISION | 133-1181-01 | ю | 4 | 2 | | 7 | , | 1 | , | 1 | | | ' | 11 | 8 | 1.783 | 0.223 |
| SONGS - RADIOGRAPHY GROUP | CA-5244-30 | 12 | • | 1 | • | • | • | • | | • | | | | 12 | | | |
| Total | 2 | 15 | 4 | 2 | • | 2 | • | ' | | | | | | 23 | 8 | 1.783 | 0.223 |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – 0 | PORARY JOB SIT | E - 03320 | |) | 2 | 9 | | | 3 | | 2 | Ω | я | | | | |
| ACUREN INSPECTION, INC. | 997-01 | - | 2 | - | 4 | - | 7 | - | , | | , | | | 12 | 1 | 5.637 | 0.512 |
| ALPHA-OMEGA SERVICES, INC. | 3925-19 | _ | 12 | 5 | 7 | - | , | • | , | • | , | | | 21 | 20 | 2.501 | 0.125 |
| ANVIL INTERNATIONAL, INC. | RI-3D-064-01 | • | 2 | - | 1 | • | ٠ | • | 1 | 1 | , | | 1 | 9 | 9 | 0.369 | 0.062 |
| CONSTRUCTION MATERIALS TESTING, INC. | 70-6620 | - | - | - | 7 | 1 | - | - | , | 1 | , | , | 1 | 7 | 9 | 2.860 | 0.477 |
| CONTRA COSTA INSPECTION | CA-1885-07 | • | 2 | • | 7 | • | ٠ | • | , | 1 | , | , | | 4 | 4 | 1.065 | 0.266 |
| INTERNATIONAL INSPECTION, INC. | 5046-19 | 4 | 2 | 1 | - | 2 | 7 | 1 | , | | , | • | | 1 | 7 | 3.240 | 0.463 |
| NDE SERVICES, INC. | 406-01 | _ | 2 | - | 4 | - | , | 1 | - | • | , | | | 10 | თ | 4.745 | 0.527 |
| NDT LABORATORIES, INC. | 1651-43 | • | - | 2 | 1 | 1 | , | 1 | • | 1 | , | | | 3 | 3 | 0.320 | 0.107 |
| TC INSPECTION, INC. | 5299-07 | 12 | 4 | 4 | 7 | ю | - | _ | | | , | • | | 37 | 25 | 5.586 | 0.223 |
| TESTING ENGINEERS, INC. | 1898-01 | • | 2 | 2 | 7 | 1 | - | • | 1 | • | , | | | 7 | 7 | 1.945 | 0.278 |
| WESTERN INDUSTRIAL X-RAY | 4424-48 | - | က | ' | - | 7 | - | • | 1 | 1 | , | | 1 | 80 | 7 | 2.577 | 0.368 |
| WESTERN X-RAY CORPORATION | 5324-56 | - | 1 | 5 | 3 | 1 | , | 1 | , | 1 | , | - | 1 | 6 | 6 | 2.470 | 0.274 |
| Total | 12 | 21 | 46 | 22 | 23 | 11 | 8 | 3 | 1 | | - | | | 135 | 114 | 33.315 | 0.292 |
| IRRADIATORS - OTHER - LESS THAN 10000 CURIES - 03511 | N 10000 CURIES - | . 03511 | | | | | | | | | | | | | | | |
| INDUSTRIAL NUCLEAR CO., INC. | 2229-01 | 9 | 2 | 1 | - | 1 | ٠ | - | , | | , | | | 12 | 9 | 3.190 | 0.532 |
| Total 1 | _ | 9 | 2 | 1 | - | - | • | - | | • | , | | | 12 | 9 | 3.190 | 0.532 |

APPENDIX ATable A - Annual TEDE for Agreement State Licensees 2003

| | | | | Numbe | r of Individ | duals with | Number of Individuals with Whole Body Doses in the Ranges (rems)* | ly Doses i | n the Ran | ges (rems | *(\$ | | | | | Total | | |
|--|-------------------|-------------------------|----------------|-------|--------------|------------|---|------------|-----------|-----------|-------|-------|-------|---------------------------|------------------------------|------------------------------------|------------------|-------------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- 0 | 0.75- 1.00 2.00 | 0- 2.00- | 3.00- | 4.00- | 5.00- | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Collective TEDE (person-rem) | Average Meas. | age S. rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHA | TION – NUCLEAR PH | ARMACIES - 02500 | - 02200 | | | | | | | | | | | | | | | |
| CARDINAL HEALTH - AK | 0707RA907-912 | 4 | 2 | • | | 1 | , | | , | | | • | • | 9 | 2 | 0.006 | 0.0 | 0.003 |
| CARDINAL HEALTH - AL | 1068 | 4 | တ | - | • | 1 | • | | , | | | • | 1 | 14 | 10 | 0.370 | 0.0 | 0.037 |
| CARDINAL HEALTH - AL | 1168 | 4 | 22 | 12 | o | 4 | 2 | т | , | | | • | • | 26 | 52 | 14.459 | 0.2 | 0.278 |
| CARDINAL HEALTH - AR | ARK-642-02500 | 10 | 37 | 16 | 2 | ю | | т | , | | | • | 1 | 74 | 64 | 10.998 | 0.1 | 0.172 |
| CARDINAL HEALTH - AZ | 01-084 | • | 9 | - | - | - | | 1 | , | , | | • | 1 | თ | 6 | 1.168 | 0.1 | 0.130 |
| CARDINAL HEALTH - AZ | 07-123 | 5 | 38 | o | 4 | 1 | | 1 | , | | | • | 1 | 26 | 51 | 3.638 | 0.0 | 0.071 |
| CARDINAL HEALTH - CA | 2891-37 | က | 7 | - | က | 1 | , | , | , | | , | • | 1 | 18 | 15 | 1.428 | 0.0 | 0.095 |
| CARDINAL HEALTH - CA | 3317-19 | - | 4 | 1 | • | 1 | | 1 | , | | | • | 1 | 15 | 14 | 0.265 | 0.0 | 0.019 |
| CARDINAL HEALTH - CA | 3426-43 | 4 | 7 | - | • | • | | | , | | | • | 1 | 12 | 80 | 0.237 | 0.0 | 0.030 |
| CARDINAL HEALTH - CA | 3469-1 | • | • | က | - | 1 | | _ | , | | | • | 1 | 5 | 5 | 2.188 | 0.4 | 0.438 |
| CARDINAL HEALTH - CA | 3469-2 | 2 | - | 2 | - | 2 | | _ | , | | | • | • | တ | 7 | 2.954 | 0.4 | 0.422 |
| CARDINAL HEALTH - CA | 3673-34 | 10 | 31 | 2 | • | 1 | | | , | | • | 1 | 1 | 43 | 33 | 1.009 | 0.0 | 0.031 |
| CARDINAL HEALTH - CA | 3822-19 | 7 | 30 | 11 | 2 | - | | 1 | , | , | | • | • | 54 | 47 | 5.030 | 0.1 | 0.107 |
| CARDINAL HEALTH - CA | 3832-01 | • | 17 | 2 | 9 | 1 | | 1 | , | | | • | 1 | 28 | 28 | 3.554 | 0.1 | 0.127 |
| CARDINAL HEALTH - CA | 4905-10 | S | 1 | 4 | - | 1 | , | | , | | | • | • | 21 | 16 | 1.393 | 0.0 | 0.087 |
| CARDINAL HEALTH - CA | 4999-30 | - | 25 | 7 | - | 1 | , | | , | | | • | 1 | 34 | 33 | 2.481 | 0.0 | 0.075 |
| CARDINAL HEALTH - CA | 5218-36 | 4 | 10 | 4 | ო | 1 | , | - | , | | | • | • | 22 | 18 | 3.577 | 0.1 | 0.199 |
| CARDINAL HEALTH - CA | 5905-15 | • | 9 | • | • | 1 | | 1 | , | | | • | 1 | 9 | 9 | 0.130 | 0.0 | 0.022 |
| CARDINAL HEALTH - CA | 5910-50 | • | 4 | - | | 1 | , | | , | | | • | • | 2 | 2 | 0.206 | | 0.041 |
| CARDINAL HEALTH - CA | 6321-45 | • | 4 | T | | 1 | , | 1 | , | | | • | 1 | 4 | 4 | 0.014 | | 0.004 |
| CARDINAL HEALTH - CA | 6691-33 | 2 | 7 | 1 | • | 1 | , | 1 | , | , | , | 1 | 1 | 13 | 1 | 0.272 | 0.0 | 0.025 |
| CARDINAL HEALTH - CA | 6924-36 | • | • | • | 2 | 1 | , | - | - | 1 | | 1 | 1 | 4 | 4 | 4.777 | 1.1 | 1.194 |
| CARDINAL HEALTH - CA | 6925-19 | • | က | 2 | 7 | - | | • | , | - | | • | • | 00 | 80 | 1.740 | | 0.218 |
| CARDINAL HEALTH - CO | 162-06 | 7 | 7 | • | , | 1 | , | | , | | | 1 | 1 | 14 | 7 | 0.255 | | 0.036 |
| CARDINAL HEALTH - CO | 392-01 | တ | 33 | ო | S. | 1 | • | 1 | , | | | ' | 1 | 20 | 4 | 2.668 | | 0.065 |
| CARDINAL HEALTH - CO | 392-03 | 9 | 33 | 2 | ß | 1 | , | | , | 1 | , | • | 1 | 46 | 4 | 2.602 | 0.0 | 0.065 |
| CARDINAL HEALTH - CT | 00163 | 2 | 32 | 2 | • | - | ľ | 1 | , | 1 | , | • | 1 | 4 | 38 | 1.886 | | 0.050 |
| CARDINAL HEALTH - FL | 1264-9 | 2 | 15 | 4 | - | 1 | , | • | , | 1 | ' | 1 | 1 | 22 | 20 | 1.145 | | 0.057 |
| CARDINAL HEALTH - FL | 3273-7 | • | 10 | - | က | 1 | - | - | , | | | • | 1 | 16 | 16 | 3.534 | 0.221 | 122 |
| CARDINAL HEALTH - FL | 3453-1 | 4 | 10 | - | - | 1 | , | 1 | , | | , | • | 1 | 16 | 12 | 0.660 | 0.0 | 0.055 |
| CARDINAL HEALTH - FL | 3453-2 | 5 | 56 | 2 | • | ' | 1 | | , | | | • | • | 36 | 31 | 1.364 | 0.0 | 0.044 |
| CARDINAL HEALTH - FL | 3453-3 | 5 | 12 | 7 | , | 1 | , | 1 | , | , | | • | 1 | 24 | 19 | 1.560 | 0.0 | 0.082 |
| CARDINAL HEALTH - FL | 3453-5 | 1 | 15 | 3 | 3 | 1 | | 1 | , | | | • | 1 | 21 | 21 | 2.159 | 0.1 | 0.103 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2003 (continued)

| | | | | Numbe | r of Indivi | duals wit | h Whole E | sody Dos | s in the | Number of Individuals with Whole Body Doses in the Ranges (rems)* | ms)* | | | | | Total | | |
|--|------------------------------|-------------------------|----------------|-------|-------------|-----------|-----------|----------|----------|---|--------------------|----------|---------|---------------------------|------------------------------|------------------------------------|------------------|-----------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 3.00 | 3.00- 4.0 | 4.00- 5.00 6.00 | 0- 6.00- | 0 >12.0 | Total Number Monitored | Number with Meas. Dose | Collective TEDE (person-rem) | Average Meas. | ge š. em) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHA | ZIBUTION - NUCLEAR PH | ARMACIES | S-02500 | | | | | | , | | , | | | | | | | |
| CARDINAL HEALTH - FL | 3453-6 | 4 | Ξ | 4 | ٠ | * | ż | | , | 1 | | • | | 19 | 15 | 1.093 | | 0.073 |
| CARDINAL HEALTH - FL | 3453-7 | 2 | 16 | 2 | 7 | • | .1 | 341 | , | 1 | , | • | • | 22 | 20 | 1.722 | 23/ | 980.0 |
| CARDINAL HEALTH - FL | 3453-8 | 9 | 18 | 2 | - | 1 | | 1 | | Ť | · | 1 | | 30 | 24 | 1.597 | 0.067 | 190 |
| CARDINAL HEALTH - FL | 3453-9 | 2 | 4 | 2 | က | • | • | | • | - | 1 | | | 2 | 19 | 1.648 | 0.087 | 187 |
| CARDINAL HEALTH - FL | FL-3273-1 | 2 | | ¥. | ٠ | 1 | ١ | Ε. | C | ï | r | • | | 2 | | • | | i |
| CARDINAL HEALTH - FL | FL-3273-3 | 1 | 4 | 7 | | | , | | • | Ť | | 7 | , | 4 | 4 | 0.153 | 0.038 | 38 |
| CARDINAL HEALTH - FL | FL-3273-6 | 2 | 9 | 1 | ٠ | ٠ | ٠ | (1) | , | 7.6 | , | • | | 12 | 10 | 0.374 | 0.037 | 187 |
| CARDINAL HEALTH - GA | GA-467-1MD | - | 5 | 9 | ო | ì | , | 1. | 1 | î | ٠ | | | 52 | 24 | 2.512 | 0.105 | 8 |
| CARDINAL HEALTH - GA | GA-467-2MD | 7 | თ | i | • | • | , | (3 | э | · i | | 7 | | 16 | σ | 0.228 | 0.025 | 52 |
| CARDINAL HEALTH - GA | GA-467-3MD | 2 | ю | ř. | ì | 1 | ٠ | 1 | | 1 | Y | 1 | | S | 6 | 0.015 | | 0.005 |
| CARDINAL HEALTH - GA | GA-823-2MD | 2 | 16 | O | ٠ | • | • | 1 | | 7 | | 1 | | 27 | 25 | 2.084 | 9220 | 0.083 |
| CARDINAL HEALTH - IA | 0043-1-77-NP | 4 | 4 | - | 1 | 1 | t | 000 | | i. | ۲ | 1 | 1 | 19 | 15 | 0.550 | | 0.037 |
| CARDINAL HEALTH - IL | IL-01721-01 | 2 | 38 | 15 | က | , | ė | 3 | , | , | | | | 69 | 72 | 4.947 | | 0.092 |
| CARDINAL HEALTH - IN | R0358-45 | 9 | 28 | က | ٠ | 3 | , | 83 | , | (i) | | | | 37 | 3 | 1.181 | 0.0 | 0.038 |
| CARDINAL HEALTH - KS | 20-C495-01 | S | 5 | 4 | ٠ | ř | ٠ | ı | 1 | Y | 1 | 1 | | 24 | 19 | 1.140 | | 090.0 |
| CARDINAL HEALTH - KY | 202-204-32 | 10 | 18 | 7 | - | - | ż | э | | 6 | • | | | 37 | 27 | 2.215 | | 0.082 |
| CARDINAL HEALTH - KY | 202-206-32 | 8 | 77 | 10 | - | - 1 | 1 | 10 | C | r: | r. | | | 35 | 32 | 2.993 | | 0.094 |
| CARDINAL HEALTH - LA | LA-10217-L01 | * | S | 1 | 5 | į | , | 1 | | ï | • | 1 | | 7 | 7 | 0.847 | 0.121 | 2 |
| CARDINAL HEALTH - LA | LA-10336-L01 | 4 | - | - | - | | . 1 | (1) | , | 14 | | • | | 7 | 3 | 0.440 | 0.147 | 47 |
| CARDINAL HEALTH - LA | LA-3385-L01 | 13 | 83 | 9 | - | - | - | • | , | i | | | | 45 | 32 | 2.970 | 0.093 | 693 |
| CARDINAL HEALTH - LA | LA-5115-L01 | O | Ξ | - | ě | 9 | 2. |) t | 3 | 94 | ž | | , | 21 | 12 | 0.399 | | 0.033 |
| CARDINAL HEALTH - LA | LA-5119-L01 | - | ^ | - | - | - | 0 | - | - | 1 | | • | | 13 | 12 | 5.849 | 0.487 | 87 |
| CARDINAL HEALTH - LA | LA-5394-L01 | 2 | တ | 6 | 2 | • | • | 7 | - | • | - | • | | 20 | 18 | 11.428 | 0.938 | 38 |
| CARDINAL HEALTH - LA | LA-7096-L01 | 2 | œ | 2 | | | | . 1 | | - 1 | | | | 12 | 5 | 0.579 | | 0.058 |
| CARDINAL HEALTH - MA | 4008 | • | 7 | ī | - | - | - | k. | £ | ř | - | 1 | , | 9 | 9 | 6.163 | 1.027 | 720 |
| CARDINAL HEALTH - MA | 42-0146 | 7 | 56 | 14 | ო | 3 | | 8 | 0 | - | 9 | | | 56 | 49 | 10.418 | | 13 |
| CARDINAL HEALTH - MD | MD-05-058-01 | 5 | 17 | 2 | ٠ | | | | t | | | | | 32 | 23 | 1.231 | 0.0 | 0.056 |
| CARDINAL HEALTH - MD | MD-33-198-01 | 80 | 88 | 7 | ٠ | • | • | | э | ã | | • | , | 53 | 54 | 2.024 | 0.045 | 54 |
| CARDINAL HEALTH - MI | 1549-4 | 80 | 8 | 2 | 4 | • | | | · | (4) | | • | • | 47 | 39 | 2.734 | | 0.070 |
| CARDINAL HEALTH - MN | 1037-205-89 | 80 | 46 | 00 | ß | • | • | 1 | | ¥ | • | * | | 29 | 59 | 4.032 | 0.068 | 89 |
| CARDINAL HEALTH - MO | 2840 | 2 | 27 | 2 | - | - | ı, | 21 | 9 | 71 | 3 | | , | 35 | 33 | 1.590 | | 0.048 |
| CARDINAL HEALTH - MO | 6141 | • | * | • | ٠ | - | , | 8 | E | E | | | | 4 | 4 | 4.733 | | 1.183 |
| CARDINAL HEALTH - MS | MS-493-01 | 7 | 0 | ¥ | 2 | • | , | 3 | • | 3 | , | * | | 2 | 14 | 1.855 | 147 | 0.133 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2003 (continued)

| | | | | Numbe | r of Indivi | duals wit | h Whole E | Number of Individuals with Whole Body Doses in the Ranges (rems)* | s in the | Ranges (r | :ms)* | | | | | Total | |
|--|---------------|----------------|-------|-------|-------------|-----------|-----------|---|----------|-----------|-----------|---------|---------|-----------|-----------------|---------|------------------|
| PROGRAM CODE - | | No Meas. | Meas. | 0.10- | 0.25- | 0.50- | _ | | _ | \vdash | _ | _ | _ | Total Num | Number Number | Ŏ. | Average Meas, |
| I STEEL STATES OF STATES O | IIGENSE# | Exposure <0.10 | <0.10 | 0.25 | 0.50 | 0.75 | 1.00 | 2.00 | 3.00 | 4.00 5 | 5.00 6.00 | 0 12.00 | 0 >12.0 | | d Dose | = | |
| CARDINAL HEALTH - MS M | MS-781-01 | | 4 | • | က | ٠ | | - | - | - | | | | | 10 10 | 7.961 | 0.796 |
| CARDINAL HEALTH - MS M | MS-915-01 | n | - | 1 | • | 1 | • | 1 | | | , | - 1 | | , | 4 | 1 0.010 | |
| CARDINAL HEALTH - MS | MS-924-01 | 4 | က | - | - | 1 | • | , | | , | , | 1 | , | | о | 5 0.680 | 0.136 |
| CARDINAL HEALTH - NC 04 | 041-0794-3 | • | 00 | • | • | 1 | • | 1 | | • | | | | , | 80 | 8 0.259 | 0.032 |
| CARDINAL HEALTH - NC 06 | 060-0794-1 | 7 | 20 | 2 | 1 | 1 | • | 1 | | , | | | , | , | 29 22 | 2 0.775 | 0.035 |
| CARDINAL HEALTH - NC 09 | 092-1175-1 | • | 7 | 8 | 7 | 1 | • | • | | , | , | | | | 12 13 | 2 1.464 | 0.122 |
| CARDINAL HEALTH - NE 01 | 01-65-01 | 2 | 34 | 2 | 2 | 1 | • | • | | 1 | | | , | , | 43 41 | 1 2.400 | 0.059 |
| CARDINAL HEALTH - NM | RP396-02 | - | 10 | - | 1 | 1 | • | 1 | | • | , | | , | | 12 1 | 1 0.396 | 90.036 |
| CARDINAL HEALTH - NV 03 | 03-11-0150-01 | - | 2 | 9 | • | • | • | • | • | • | , | | , | | 12 1 | 1.121 | 0.102 |
| CARDINAL HEALTH - NV 05 | 092-0794-6 | 2 | 7 | 2 | 7 | • | • | • | , | • | | | | , | 13 1 | 1.295 | 0.118 |
| CARDINAL HEALTH - NY 23 | 2306-3119MD | 10 | 78 | 4 | - | • | • | 1 | | 1 | , | | , | | 43 33 | 3 1.844 | 0.056 |
| CARDINAL HEALTH - NY C. | C2328 | 9 | 15 | ო | - | • | • | • | | • | , | | , | | 25 19 | 979.0 | 0.052 |
| CARDINAL HEALTH - NY C. | C2364 | 10 | 20 | 1 | ' | 1 | • | 1 | | 1 | , | 1 | , | , | 30 20 | 0.302 | 0.015 |
| CARDINAL HEALTH - NY C. | C2449 | 4 | 16 | 2 | • | • | • | • | | • | , | | , | | 22 18 | 909.0 | 0.034 |
| CARDINAL HEALTH - NY C. | C2588 | 9 | 16 | - | • | 1 | • | • | , | 1 | , | | , | | 23 17 | 7 0.510 | 0.030 |
| CARDINAL HEALTH - NY C. | C2593 | 80 | 21 | • | - | • | • | 1 | , | • | , | | , | | 30 22 | 2 0.857 | 0.039 |
| CARDINAL HEALTH - NY C. | C2613 | 3 | 13 | - | ' | • | - | • | • | , | | | , | | 15 15 | 5 1.244 | 0.083 |
| CARDINAL HEALTH - OH 02 | 02500180000 | 12 | 15 | 2 | 1 | • | • | • | , | 1 | , | | , | - | 29 17 | 7 0.659 | 0.039 |
| CARDINAL HEALTH - OH 02 | 02500250000 | 14 | 4 | ∞ | 2 | 1 | • | • | • | • | , | | | | 64 50 | 2.590 | 0.052 |
| CARDINAL HEALTH - OH 02 | 02500310000 | က | ω | • | - | - | • | • | , | 1 | , | | , | , | 13 10 | 7.071 | 0.108 |
| CARDINAL HEALTH - OH 02 | 02500490001 | 14 | 22 | 2 | ' | 1 | • | • | • | • | , | | | | 41 27 | 7 1.126 | 0.042 |
| CARDINAL HEALTH - OH 02 | 02500580000 | 4 | 18 | 4 | 7 | • | • | • | • | , | , | | , | | 28 24 | 1.760 | 0.073 |
| CARDINAL HEALTH - OH 02 | 02500770000 | 9 | ω | • | • | 1 | • | • | | • | , | | , | | 11 | 8 0.267 | 0.033 |
| CARDINAL HEALTH - OH 02 | 02500790000 | - | O | - | • | • | • | • | | 1 | , | | , | | 11 10 | 0.391 | 0.039 |
| CARDINAL HEALTH - OH 03 | 03214310000 | | - | 7 | ' | - | - | • | | 1 | , | - | , | - | 2 | 5 1.802 | 0.360 |
| CARDINAL HEALTH - OH 48 | 4853-19 | 00 | 19 | - | 1 | 1 | 1 | • | | 1 | | | , | 1 | 28 20 | 0.628 | 0.031 |
| CARDINAL HEALTH - OK O | OK-19583-02MD | က | 15 | 7 | 4 | ' | • | • | | • | ï | | , | | 29 26 | 3.020 | 0.116 |
| CARDINAL HEALTH - OK O | OK-23359-02MD | 4 | 17 | - | 1 | • | • | • | • | • | , | | , | | 22 18 | 8 0.679 | 0.038 |
| CARDINAL HEALTH - OR O | ORE-90509 | • | 00 | က | 7 | • | • | • | | • | , | | , | | 13 13 | | 960.0 |
| CARDINAL HEALTH - OR O | ORE-90703 | • | 00 | ო | က | - | - | 4 | | 1 | | | , | 1 | | _ | |
| CARDINAL HEALTH - OR O | ORE-90914 | 80 | 15 | 4 | - | - | - | • | | • | | 1 | , | | 30 2 | 2 2.749 | 0.125 |
| | PA-0384 | - | 32 | ω | - | 1 | • | 1 | | 1 | | | , | , | 42 41 | | |
| CARDINAL HEALTH - PA P, | PA-0385 | 6 | 53 | 1 | 1 | က | • | 1 | • | 1 | | | | | 87 78 | 9.201 | 0.118 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2003 (continued)

| | | | | | | e | | | | | | | | | | | | ı |
|--|-------------------|-------------------------|----------------|--------|------------|-----------|--------------------------|---|---------|------------|-------|-------|-------|---------------------------|------------------------------|------------------------------------|-------------------------------|----------|
| | | | | Number | of Individ | uals with | Whole Boo | Number of Individuals with Whole Body Doses in the Ranges (rems)* | the Ran | jes (rems) | * | | | | | Total | | |
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- 0 | 0.50- 0 | 0.75- 1.00- 1.00 2.00 | 0- 2.00- | 3.00- | 4.00- | 5.00- | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Collective TEDE (person-rem) | Average Meas. TEDE (rem | a je |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHA | TION – NUCLEAR PH | ARMACIES - 02500 | - 02500 | | | | | | | | | | | | | | | |
| CARDINAL HEALTH - PA | PA-0415 | • | 56 | 7 | - | • | , | • | | | • | , | 1 | 34 | 34 | 2.251 | 0.066 | 99 |
| CARDINAL HEALTH - PA | PA-0460 | _ | 16 | 1 | • | 1 | r | | | | 1 | ' | ľ | 17 | 16 | 0.374 | 0.023 | 23 |
| CARDINAL HEALTH - PA | PA-0643 | 4 | 19 | 7 | , | , | | | , | | , |) | 1 | 25 | 21 | 0.787 | 0.037 | 37 |
| CARDINAL HEALTH - PA | PA-0680 | 2 | 19 | - | • | • | , | | | | • | 1 | • | 22 | 20 | 0.723 | 0.036 | 36 |
| CARDINAL HEALTH - RI | 3B-114-01 | 4 | 52 | _ | , | 1 | , | | | | • | • | 1 | 30 | 26 | 0.869 | 0.033 | 33 |
| CARDINAL HEALTH - SC | 448 | 2 | တ | - | 7 | • | , | | ļ | | • | • | 1 | 14 | 12 | 0.859 | 0.072 | 72 |
| CARDINAL HEALTH - SD | 47111 | • | 12 | 2 | , | - | | • | , | | , | • | 1 | 15 | 15 | 1.465 | 0.098 | 86 |
| CARDINAL HEALTH - TN | R-19199-B15 | 2 | 56 | 16 | - | • | | | | | , | 1 | 1 | 45 | 43 | 3.500 | 0.081 | 31 |
| CARDINAL HEALTH - TN | R-33111-114 | က | 18 | 2 | • | 1 | | | , | | • | • | 1 | 23 | 20 | 0.875 | 0.044 | 4 |
| CARDINAL HEALTH - TN | R47080-L14 | က | 19 | ო | , | • | | | , | | , | , | 1 | 25 | 22 | 0.893 | 0.041 | + |
| CARDINAL HEALTH - TN | R-57025-C15 | - | 9 | • | , | - | , | | | | 1 | 1 | T | 80 | 7 | 0.635 | 0.091 | 76 |
| CARDINAL HEALTH - TN | R-71029-B11 | က | 7 | _ | - | 1 | , | , | | | • | • | • | 12 | σ | 0.753 | 0.084 | 45 |
| CARDINAL HEALTH - TN | R-79174-02 | • | - | 2 | • | - | | | ļ | | • | 1 | • | 4 | 4 | 1.011 | 0.253 | 23 |
| CARDINAL HEALTH - TN | R-79174-D17 | - | 10 | - | - | - | , | | | | • | • | 1 | 14 | 13 | 1.285 | 0.099 | 66 |
| CARDINAL HEALTH - TX | L0-1911 | 18 | 4 | ω | ო | - | , | | | | • | • | 1 | 71 | 53 | 3.916 | 0.074 | 47 |
| CARDINAL HEALTH - TX | L0-1999 | • | 9 | 1 | , | • | , | • | | | 1 | 1 | 1 | 9 | 9 | 0.072 | 0.012 | 12 |
| CARDINAL HEALTH - TX | L0-2033 | 2 | 54 | 2 | - | - | - | | | | 1 | , | ľ | 34 | 32 | 3.356 | 0.105 | 22 |
| CARDINAL HEALTH - TX | L0-2048 | = | 24 | 2 | , | ' | | , | | ' | 1 | • | 1 | 4 | 29 | 1.399 | 0.048 | 8 |
| CARDINAL HEALTH - TX | L0-2117 | က | 17 | 7 | - | • | , | | | | • | • | r | 23 | 20 | 0.963 | 0.048 | 84 |
| CARDINAL HEALTH - TX | L0-2737 | - | 4 | • | • | • | | | | | • | 1 | • | 5 | 4 | 0.089 | 0.022 | 22 |
| CARDINAL HEALTH - TX | L0-2905 | 5 | 7 | _ | • | • | | | | | • | • | • | 13 | ω | 0.153 | 0.019 | 6 |
| CARDINAL HEALTH - TX | L0-2987 | 2 | • | • | , | • | , | | | | • | 1 | 1 | 2 | • | • | | _ |
| CARDINAL HEALTH - TX | L0-3398 | - | = | ' | • | • | | • | , | | 1 | ' | ı | 12 | 7 | 0.158 | 0.014 | 4 |
| CARDINAL HEALTH - TX | L0-4043 | 1 | œ | 1 | , | 1 | | | , | | | • | 1 | 80 | 00 | 0.206 | 0.026 | 56 |
| CARDINAL HEALTH - TX | L0-4573 | - | 19 | - | , | • | | • | , | | ' | 1 | 1 | 21 | 20 | 0.501 | 0.025 | 52 |
| CARDINAL HEALTH - TX | L0-4781 | 10 | 10 | 7 | - | , | , | | | | 1 | ' | 1 | 23 | 13 | 1.192 | 0.092 | 35 |
| CARDINAL HEALTH - TX | L0-4785 | • | თ | • | 7 | • | , | • | | | • | ' | 1 | 11 | 11 | 0.993 | 060.0 | 06 |
| CARDINAL HEALTH - TX | L0-5536 | • | - | - | - | - | | - | , | | • | ' | 1 | 2 | S) | 2.428 | 0.486 | 99 |
| CARDINAL HEALTH - US | 074-1180-1 | - | 2 | - | - | 1 | , | 1 | | | 1 | • | , | 8 | 7 | 0.516 | 0.074 | 74 |
| CARDINAL HEALTH - US | CH-US-001 | 36 | 96 | 45 | 4 | 00 | က | ю | , | | • |) | • | 235 | 199 | 36.061 | 0.181 | 34 |
| CARDINAL HEALTH - UT | UT-1800225 | 2 | 12 | 7 | 4 | - | | • | | | 1 | 1 | | 21 | 19 | 2.731 | 0.144 | 4 |
| CARDINAL HEALTH - VA | 760-34-1 | - | 15 | 28 | • | • | , | | | | • | • | 1 | 4 | 43 | 4.187 | 0.097 | 25 |
| CARDINAL HEALTH - WA | WN-NP003-1 | 9 | 52 | ო | 7 | • | | | | | • | 1 | 1 | 33 | 27 | 1.542 | 0.057 | 22 |
| CARDINAL HEALTH - WA | WN-NP004-1 | 4 | 21 | 2 | 7 | 1 | | | , | | • | • | • | 32 | 28 | 2.155 | 0.077 | 22 |
| CARDINAL HEALTH - WA | WN-NP005-1 | 3 | 12 | 2 | 2 | - | | | | | • | • | • | 20 | 17 | 2.367 | 0.139 | <u>8</u> |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2003 (continued)

| | | | Numb | er of Indiv | Number of Individuals with Whole Body Doses in the Ranges (rems)* | h Whole E | 3ody Dos | es in the | Ranges (I | ems)* | | | | | Total | |
|--|----------------------|----------------|-------|-------------|---|-----------|----------|-----------|-----------|---------------------|----------------------|----------------------|---------------------------|--------|------------|---------------------|
| | No | | | | | | ŀ | - | - | - | 2 | - | _ | Number | Collective | Average |
| PROGRAM CODE - LICENSEE NAME | Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 3.00 | 3.00- 4 | 4.00- 5. 5.00 6. | 5.00- 6.0 6.00 12 | 6.00- 12.00 >12.0 | Total Number Monitored | 3 | _== | Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARMACIES – 02500 | HARMACIE | S-02500 | | | | | | | | | | | | | | |
| CARDINAL HEALTH - WA WN-NP011-1 | 4 | 24 | 9 | ო | 3. | | | • | | • | • | | 74 | 8 | 2.471 | 0.082 |
| CARDINAL HEALTH - WI 025-1123-01 | | - | | က | 0 | - | - | r | - | 0 | · | | 0 | 6 | 8.453 | 0.939 |
| CARDINAL HEALTH - WI 087-1312-01 | 80 | 6 | 2 | | | 3 | | , | 1 | • | • | | . 19 | 11 | 0.481 | 0.044 |
| CARDINAL HEALTH - WI 141-1306-01 | - | 4 | 2 | - | -1 | 90 | . 1 | | 1 | | • | | 00 | 7 | 0.863 | 0.123 |
| GE HEALTHCARE - ANAHEIM 4810-30 | 21 | 13 | 1 | • | | | | 1 | 1 | ٠ | î | | 38 | 13 | 0.529 | 0.041 |
| GE HEALTHCARE - SACRAMENTO 4809-34 | 17 | က | 5 | • | | • | 19 | | - | ٠ | • | | . 25 | 00 | 0.775 | 0.097 |
| GE HEALTHCARE - SAN DIEGO 5796-37 | 24 | 9 | | | | х | Y. | ï | 1 | í | | | 30 | 9 | 0.129 | 0.022 |
| GE HEALTHCARE - SAN JOSE 4811-43 | က | O | 2 | 4 | 4 | Э | 9 | 4 | • | ٠ | • | | 18 | 15 | 1.946 | 0.130 |
| GE HEALTHCARE - VAN NUYS 5143-19 | 13 | 4 | 2 | | - 63 | · | 6 | 6 | Ü | ٠ | - 5 | | . 19 | 9 | 0.426 | 0.071 |
| IBA MOLECULAR NORTH AMERICA, INC. CA-7131-43 | က | 2 | • | • | | | • | | , | ٠ | • | | 0 | 2 | 0.063 | 0.032 |
| MALLINCKRODT, INC. 859-01 | 7 | 8 | - | 1 | | 1 | 1 | | 1 | | | | . 58 | 21 | 0.846 | 0.040 |
| MORAVEK BIOCHEMICALS, INC. 2960-30 | 8. | 17 | 2 | • | 3 | 3 | - | 4 | į | , | | 2 | . 20 | 20 | 2.399 | 0.120 |
| WYLE LABORATORIES FL-2953-1 | 24 | 3 | * | 1 | | × | | × | | | | | . 27 | 9 | 0.060 | 0.020 |
| Total 147 | 669 | 2,207 | 499 | 223 | 47 | 14 | 31 | 4 | 2 | 2 | 0 | | - 3,728 | 3,029 | 324.649 | 0.109 |
| WELL LOGGING BYPRODUCT AND/OR SNM SEALED S | SOURCES ONLY - 03111 | ONLY-0 | 3111 | | | | | | | | | | | | | |
| ISOTOPE PRODUCTS LABS 1509-19 | 2 | 24 | 8 | 4 | 0 | 7 | 12 | | • | ٠ | | | - 60 | 28 | 28.011 | 0.483 |
| Total 1 | 2 | 24 | 8 | 4 | က | 7 | 12 | • | | , | × | | 09 - | 28 | 28.011 | 0.483 |
| MEASURING SYSTEMS PORTABLE GAUGES - 03121 | | | | | | | | | | | | | | | | |
| CPN INTERNATIONAL, INC. 1100-07 | - | 3 | 4 | 4 | ı. | ٠ | - | , | ì | ٠ | • | | 13 | 12 | 3.242 | 0.270 |
| Total 1 | - | 3 | 4 | 4 | | ٠ | 1 | ٠ | , | | | | - 13 | 12 | 3.242 | 0.270 |
| MANUFACTURING AND DISTRIBUTION - OTHER - 0321 | 14 | | | | | | | | | | | | | | | |
| HOCHIKI AMERICA CORP 2090-30 | 20 | • | • | • | | | | | | | • | | . 20 | 7.4 | • | |
| J. L. SHEPHERD AND ASSOCIATES CA 1777-19 | 12 | 6 | 2 | 2 | - | ٠ | - | • | • | | • | | 27 | 15 | 3.443 | 0.230 |
| Total 2 | 32 | 6 | 2 | 2 | - | ٠ | - | | ٠ | | | • | - 47 | 15 | 3.443 | 0.230 |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR REPACKAGING - 03234 | EPACKAGI | NG - 032 | 34 | | | 1 | | | | | | | | | | |
| ENVIRONMENTAL MANAGEMENT & 3546-50 CONTROLS | - | က | 4 | • | - | 317 | , | 91 | - | | 97 | | 6 | 8 | 1.387 | 0.173 |
| THOMAS GRAY & ASSOCIATES, INC. 2105-30 | 9 | 2 | * | ٠ | 5 | 1. | | ٠ | | ٠ | • | , | 8 | 2 | 0.098 | 0.049 |
| Total 2 | 7 | 9 | 4 | | - | • | ٠ | • | | | | | . 17 | 10 | 1.485 | 0.149 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2003 (continued)

| | | | | Numb | er of Indi | viduals w | th Whole | Body Dos | Number of Individuals with Whole Body Doses in the Ranges (rems) | Ranges (| rems)* | | | | | | Total | | |
|--|--------------------|-------------------------|----------------|-------|------------|-----------|----------|----------|--|----------|---------------|-----------------|-------|--------|---------------------------|------------------------------|------------------------------------|--------------------------------|----|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 3.00 | 3.00- | 4.00- 5.00 | 5.00- 6.00 1 | 6.00- | T 12.0 | Total Number Monitored | Number with Meas. Dose | Collective TEDE (person-rem) | Average Meas. TEDE (rem) | |
| INDUSTRIAL RADIOGRAPHY – FIXED LOCATION – 03310 | (ED LOCATION – 033 | 10 | | | | | | | | | | | | | | | | | |
| LAFAYETTE TESTING SERVICES, INC. | 079-1147-01 | - | 3 | 1 | ' | 1 | , | ı | 1 | • | , | • | , | • | 4 | 3 | 0.084 | 0.028 | |
| METALTEK - WI CENTRIFUGAL DIVISION | 133-1181-01 | 4 | က | - | 2 | 1 | 1 | 1 | 1 | • | | • | | ' | 10 | 9 | 0.991 | 0.165 | |
| SONGS - RADIOGRAPHY GROUP | CA-5244-30 | 12 | • | • | 1 | • | 1 | 1 | 1 | • | | • | • | • | 12 | | | | |
| WAUKESHA FOUNDRY, INC WI | 133-1337-01 | ო | 1 | 1 | 1 | 1 | • | , | , | • | , | • | , | | 3 | , | • | • | |
| Total | 4 | 20 | 9 | 1 | 2 | • | ľ | • | | | | | | | 29 | 6 | 1.075 | 0.119 | - |
| INDUSTRIAL RADIOGRAPHY - TEMPORARY JOB SITE - | MPORARY JOB SITE | - 03320 | | | | | | | | l | | | | | | | | | _ |
| ACTON INSPECTION, LLC. | OK-27438-01 | - | 2 | - | - | - | - | 2 | 1 | • | , | ٠ | , | • | 6 | 80 | 5.237 | 0.655 | |
| ACUREN INSPECTION, INC. | 997-01 | • | 4 | - | т | - | • | 2 | 1 | • | | , | | ' | 1 | 11 | 4.657 | 0.423 | |
| ALPHA-OMEGA SERVICES, INC. | 3925-19 | - | o | ю | 2 | 1 | 1 | • | • | • | ٠ | • | ٠ | • | 15 | 4 | 1.642 | 0.117 | |
| AMERICAN ENGINEERING TESTING, INC. | 073-2012-02 | 2 | 7 | ю | 2 | 1 | 7 | o | 2 | 2 | | • | • | • | 32 | 30 | 28.982 | 996.0 | 45 |
| ANVIL INTERNATIONAL, INC. | RI-3D064-01 | - | 2 | က | • | 1 | 1 | 1 | 1 | • | ٠ | • | ٠ | • | 9 | 5 | 0.496 | 0.099 | _ |
| COOPERHEAT-MQS INSPECTION | 388-01 | - | 9 | 2 | 2 | 2 | - | 2 | 1 | • | | • | ٠ | • | 16 | 15 | 6.293 | 0.420 | _ |
| CONSTRUCTION MATERIALS TESTING, INC. | 0799-07 | - | • | 2 | 2 | 1 | ٠ | | , | 1 | | 1 | | - | 5 | 4 | 0.899 | 0.225 | |
| FTS, INC. | OK-31027-01 | • | 2 | က | 2 | _ | 7 | - | • | • | | ٠ | | • | 7 | 11 | 5.210 | 0.474 | |
| INTERNATIONAL INSPECTION, INC. | 5046-19 | 5 | • | 2 | 2 | 2 | • | • | • | • | | • | • | • | 1 | 9 | 2.382 | 0.397 | _ |
| NDE SERVICES, INC. | 406-01 | 2 | - | ' | 4 | 2 | 1 | 1 | 1 | • | | • | • | • | တ | 7 | 2.734 | 0.391 | _ |
| NDT, INC. | OK-26824-01 | • | _ | 2 | 1 | - | 7 | - | - | 7 | | 1 | , | • | 10 | 10 | 13.016 | 1.302 | |
| NDT LABORATORIES, INC. | 1651-43 | • | _ | 1 | 7 | 1 | • | 1 | 1 | 1 | | 1 | , | • | 8 | 3 | 0.680 | 0.227 | |
| NDT SPECIALISTS, INC. | 079-1199-01 | 2 | 9 | 1 | ო | 2 | 1 | 2 | 1 | ' | | - | | ' | 12 | 10 | 5.324 | 0.532 | • |
| TC INSPECTION, INC. | 5299-07 | 13 | 9 | 10 | 7 | 9 | - | 9 | • | • | • | • | , | • | 46 | 33 | 12.739 | 0.386 | |
| TEAM INDUSTRIAL SERVICES, INC. | 079-2005-01 | - | 6 | - | - | 2 | 1 | 1 | 1 | • | , | • | • | • | 14 | 13 | 2.127 | 0.164 | |
| TESTING ENGINEERS, INC. | 1898-01 | • | 2 | - | - | - | • | - | 1 | • | | 1 | , | • | 9 | 9 | 2.024 | 0.337 | |
| TWIN PORTS TESTING, INC. | 031-1317-02 | က | 1 | 9 | ო | 2 | ' | - | 1 | • | , | • | , | • | 12 | 0 | 3.617 | 0.402 | • |
| WESTERN INDUSTRIAL X-RAY | 4424-48 | • | • | - | 1 | - | - | - | - | ٠ | | • | • | • | 2 | 5 | 6.078 | 1.216 | 45 |
| WESTERN X-RAY CORP | 5324-56 | - | _ | 2 | ' | - | 1 | - | 1 | • | 1 | • | , | • | 9 | 2 | 2.231 | 0.446 | 45 |
| WOS TESTING, INC. | 035-1358-01 | 2 | 9 | 2 | - | 1 | • | - | • | • | | 1 | , | ٠ | 12 | 10 | 2.362 | 0.236 | 15 |
| YUBA HEAT TRANSFER | OK-13735-01 | • | 1 | 1 | 1 | - | 1 | 1 | 1 | - | | 1 | - | • | 2 | 2 | 0.166 | 0.083 | |
| Total | 21 | 36 | 63 | 43 | 41 | 25 | 10 | 27 | 4 | 4 | | - | | - | 253 | 217 | 108.896 | 0.502 | |
| IRRADIATORS - OTHER - LESS THAN 10000 CURIES - 03511 | IAN 10000 CURIES - | 03511 | | | | | | | | | | | | | | | | | |
| INDUSTRIAL NUCLEAR CO., INC. | 2229-01 | 6 | 1 | 1 | 2 | 1 | 1 | - | - | • | ٠ | • | • | • | 13 | 4 | 3.989 | 0.997 | |
| Total | , | 6 | | • | 2 | • | • | 1 | - | • | | • | | • | 13 | 4 | 3.989 | 0.997 | |
| | | | | | | | | | | | | | | | | | | | |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees

0.218 0.620 0.045 0.206 0.014 0.090 0.111 0.069 0.045 0.554 0.027 Average Meas. TEDE (rem) 3.435 2.216 0.991 0.148 0.263 0.043 0.055 0.055 4.227 3.835 3.700 4.044 4.044 2.827 2.478 0.938 1.130 1.130 1.130 3.347 3.705 3.566 Total Collecti TEDE Total Number Aonitored >12.0 6.00-5.00-Number of Individuals with Whole Body Doses in the Ranges (rems) 4.00-5.00 3.00-2.00-3.00 1.00-0.75-0.50-0.25-0.10-0.25 LICENSEE NAME LICENSE# Exposure | <0.10 | 0.3 MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARMACIES – 0.2500 Meas. <0.10 No Meas. 0707RA907-912 ARK-642-02500 4905-10 5910-50 6321-45 3317-19 4999-30 5905-15 6691-33 2891-37 3426-43 3673-34 3822-19 3832-01 5218-36 6924-36 6925-19 3469-1 3469-2 162-06 01-084 CARDINAL HEALTH - CA CARDINAL HEALTH - CO CARDINAL HEALTH - CA CARDINAL HEALTH - CA CARDINAL HEALTH - CA CARDINAL HEALTH - CA CARDINAL HEALTH - CO CARDINAL HEALTH - AK CARDINAL HEALTH - AZ CARDINAL HEALTH - AZ CARDINAL HEALTH - CA CARDINAL HEALTH - FL CARDINAL HEALTH - AL PROGRAM CODE -LICENSEE NAME

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2004 (continued)

| | | | | | | | | | | | ı | | | - | | | I |
|--|-----------------------|----------------|---------------|----------|----------|---------------|---------|-----------|---------|---|-------------------|----------------------|-----------------------|----------|-----|----------------------|---------------|
| | | N | mber of | Individi | ais with | wnoie | soay Do | ses In th | e Kange | Number of Individuals with whole Body Doses in the Ranges (rems)* | | | | Number | her | | Average |
| | No | | | | | | | | | | | | Total | | | Fotal Collective | Meas. |
| PROGRAM CODE - LICENSEE NAME LICENSE# | Meas. Exposure | Meas. <0.10 | 0.10- 0.25 | 0.25- | 0.50- | 0.75- 1.00 | 1.00- | 2.00- 3 | 3.00- | 4.00- 5. 5.00 6. | 5.00- 6 6.00 1 | 6.00- 12.00 >12.0 | Number 0 Monitored | er Meas. | _ | TEDE (person-rem) | TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHA | SAR PHARMACIES | SIES - 02500 | 200 | | | | | | | | | | | | | | |
| CARDINAL HEALTH - FL 3453-6 | 4 | 23 | 5 | 4 | 1 | • | 1 | • | ٠ | | • | , | | 36 | 32 | 2.729 | 0.085 |
| CARDINAL HEALTH - FL 3453-7 | 4 | 15 | 10 | ო | 1 | • | • | • | , | ٠ | • | | | 32 | 28 | 3.623 | 0.129 |
| CARDINAL HEALTH - FL 3453-8 | 4 | 19 | 4 | - | 1 | 1 | 1 | • | • | | • | | | 28 | 24 | 1.900 | 0.079 |
| CARDINAL HEALTH - FL 3453-9 | 2 | 13 | 2 | 7 | 1 | • | • | • | • | | • | | | 19 | 17 | 1.303 | 0.077 |
| CARDINAL HEALTH - FL | | 7 | 1 | 1 | 1 | • | 1 | • | , | | • | | | 7 | 7 | 0.129 | 0.018 |
| CARDINAL HEALTH - FL | _ | 10 | - | - | 1 | , | , | • | • | | • | , | | 13 | 12 | 0.622 | 0.052 |
| CARDINAL HEALTH - GA GA-467-1MD | _ | 19 | 2 | 4 | 1 | • | • | 1 | • | | • | | | 29 | 28 | 3.153 | 0.113 |
| CARDINAL HEALTH - GA GA-467-2MD | 4 | 7 | - | • | 1 | • | • | • | • | | ٠ | | | 12 | 80 | 0.220 | 0.028 |
| CARDINAL HEALTH - GA GA-467-3MD | _ | 4 | • | 1 | 1 | 1 | • | 1 | • | | • | 1 | | 2 | 4 | 0.047 | 0.012 |
| CARDINAL HEALTH - GA GA-823-2MD | _ | 13 | 5 | 7 | 1 | ٠ | • | • | • | • | ٠ | | | 21 | 20 | 2.009 | 0.100 |
| CARDINAL HEALTH - IA 0043-1-77-NP | 6 | 17 | • | • | 1 | • | • | • | , | | • | | | 20 | 17 | 0.416 | 0.024 |
| CARDINAL HEALTH - IL | 9 | 44 | တ | - | 1 | • | • | • | • | | | , | | 09 | 54 | 3.122 | 0.058 |
| CARDINAL HEALTH - IN R0358-45 | 00 | 25 | _ | - | 1 | • | • | • | • | | • | | | 35 | 27 | 0.899 | 0.033 |
| CARDINAL HEALTH - KS 20-C495-01 | 7 | တ | 5 | က | _ | • | 1 | • | , | | - 1 | | | 29 | 18 | 3.101 | 0.172 |
| CARDINAL HEALTH - KY 202-204-32 | 7 | 22 | 4 | • | 1 | ٠ | ٠ | • | • | ٠ | ٠ | | | 36 | 59 | 1.378 | 0.048 |
| CARDINAL HEALTH - KY 202-206-32 | _ | 8 | 12 | • | 1 | • | • | • | • | | • | | | 33 | 32 | 3.040 | 0.095 |
| CARDINAL HEALTH - LA | • | 9 | - | 1 | 1 | • | • | • | • | | • | , | | 7 | 7 | 0.262 | 0.037 |
| CARDINAL HEALTH - LA | • | 7 | _ | • | • | • | • | • | • | | 1 | | | œ | 00 | 0.305 | 0.038 |
| CARDINAL HEALTH - LA | 18 | 18 | 2 | 7 | _ | - | • | • | ٠ | | ٠ | | | 42 | 24 | 2.944 | 0.123 |
| CARDINAL HEALTH - LA | 2 | 17 | 4 | - | 1 | • | 1 | • | • | | | , | | 24 | 22 | 1.594 | 0.072 |
| CARDINAL HEALTH - LA | 2 | თ | ო | • | 1 | • | - | ٠ | • | , | • | , | | 15 | 13 | 2.230 | 0.172 |
| CARDINAL HEALTH - LA | 2 | 17 | 00 | 1 | 1 | 1 | • | 1 | • | 1 | • | , | • | 27 | 22 | 1.693 | 0.068 |
| CARDINAL HEALTH - LA | • | 00 | ო | 7 | 1 | • | • | • | 1 | • | 1 | | | 13 | 13 | 1.317 | 0.101 |
| CARDINAL HEALTH - MA 4008 | 1 | ' | 2 | 7 | _ | 1 | • | 1 | - | , | • | , | • | 9 | 9 | 5.159 | 0.860 |
| CARDINAL HEALTH - MA 42-0146 | 9 | 56 | 9 | Ŋ | 2 | - | _ | • | 1 | , | ٠ | , | | 47 | 44 | 8.344 | 0.190 |
| CARDINAL HEALTH - MD MD-05-058-01 | 6 | 56 | 2 | , | _ | , | ' | • | 1 | , | • | 1 | | 41 | 32 | 2.164 | 0.068 |
| CARDINAL HEALTH - MD MD-05-148-01 | | 10 | 2 | 7 | 1 | • | , | • | • | • | | | | 14 | 4 | 1.440 | 0.103 |
| CARDINAL HEALTH - MD MD-33-177-01 | • | _ | • | 1 | 1 | , | , | • | 1 | • | • | | | _ | _ | 0.078 | 0.078 |
| CARDINAL HEALTH - MD MD-33-198-01 | 80 | 38 | 2 | • | _ | • | ' | 1 | • | • | • | 7 | | 52 | 44 | 2.390 | 0.054 |
| CARDINAL HEALTH - MI 1549-4 | - | 52 | 00 | ო | - | 7 | • | • | • | • | • | , | • | 40 | 33 | 4.520 | 0.116 |
| CARDINAL HEALTH - MN 1037-205-89 | 15 | 46 | ∞ | 7 | 1 | 1 | • | , | • | , | • | 7 | | 71 | 26 | 2.807 | 0.050 |
| CARDINAL HEALTH - MN 1045-100-89 | | • | 4 | • | _ | • | • | • | • | • | • | | | 2 | 2 | 1.169 | 0.234 |
| CARDINAL HEALTH - MO | - | 28 | 9 | 2 | 1 | , | • | ٠ | ٠ | | ٠ | | | 37 | 36 | 1.944 | 0.054 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2004 (continued)

| | | Z | umber | of Individ | uals wit | n Whole | Body Do | ses in t | he Rang | Number of Individuals with Whole Body Doses in the Ranges (rems)* | *_ | | | | Ni maka | | O STATE OF THE OWNER OWNE |
|--|--------|-----------------|-------|------------|----------|---------------|---------|----------|---------|---|-------|---------------------|--------------|---------------------|---------------|----------------------|--|
| | No | | | | | | | | | | | | | Total | with | Total Collective | Average Meas. |
| PROGRAM CODE - LICENSEE NAME LICENSE# | | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- 1.00 | 1.00- | 3.00 | 3.00- | 5.00 (| 5.00- | 6.00- 12.00 >1 | - >12.0 N | Number Monitored | Meas. Dose | TEDE (person-rem) | TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHA | | RMACIES - 02500 | 500 | | | | | | | | | | | | | | ; |
| CARDINAL HEALTH - NC 011-0794-7 | | | _ | ' | • | · | • | • | ' | , | 1 | • | 1 | 6 | 6 | 0.379 | 0.042 |
| CARDINAL HEALTH - NC 025-0794-10 | | 3 5 | _ | _ | • | • | _ | • | • | | • | | 1 | 10 | 7 | 1.544 | 0.221 |
| CARDINAL HEALTH - NC 026-0794-8 | | 3 | 2 | - | _ | 1 | 1 | • | 1 | | • | | • | 12 | 6 | 1.405 | 0.156 |
| CARDINAL HEALTH - NC 041-0794-3 | | 5 10 | • | ' | ' | ' | ' | 1 | ' | ٠ | , | , | 1 | 15 | 10 | 0.291 | 0.029 |
| CARDINAL HEALTH - NC 041-0794-5 | 10 | 1 | _ | ' | • | 1 | , | 1 | ' | | , | • | -1 | 2 | 2 | 0.150 | 0.075 |
| CARDINAL HEALTH - NC 060-0794-1 | | - 30 | 5 | ' | • | 1 | ' | 1 | ' | • | 1 | • | • | 32 | 35 | 1.751 | 0.050 |
| CARDINAL HEALTH - NC 060-0794-9 | | - | | ' | , | 0 | ' | ' | , | ٠ | , | , | | 2 | ~ | 0.001 | 0.001 |
| CARDINAL HEALTH - NC 092-1175-1 | _ | 2 | က | 7 | ' | 1 | 1 | 1 | 1 | • | 1 | | • | 15 | 13 | 1.293 | 0.099 |
| CARDINAL HEALTH - NE 01-65-01 | 4, | 5 | 5 | 7 | _ | ' | ' | • | • | • | • | | | 42 | 37 | 3.308 | 0.089 |
| CARDINAL HEALTH - NM RP396-02 | () | 3 10 | _ | - | , | 1 | 1 | • | 1 | | • | | • | 15 | 12 | 0.650 | 0.054 |
| CARDINAL HEALTH - NV 03-11-0150-01 | | 1 1 | 7 | • | • | 1 | • | • | • | • | • | | • | 19 | 18 | 1.384 | 0.077 |
| CARDINAL HEALTH - NV 092-0794-6 | 0 | 3 15 | 2 | 2 | 2 | • | • | • | 1 | | • | | 1 | 27 | 21 | 2.764 | 0.132 |
| CARDINAL HEALTH - NY 2306-3119MD | MD | 5 28 | 10 | ' | 2 | 1 | , | ' | , | ٠ | • | | • | 46 | 4 | 3.650 | 0.091 |
| CARDINAL HEALTH - NY 2770-4012 | | - | - | ' | ' | 1 | 1 | 1 | 1 | • | • | | • | 3 | 2 | 0.112 | 0.056 |
| CARDINAL HEALTH - NY C2328 | • | 16 | ю | | • | 1 | , | • | , | • | 1 | | 1 | 23 | 19 | 0.857 | 0.045 |
| CARDINAL HEALTH - NY C2364 | 41 | 4 19 | _ | • | • | • | _ | 1 | • | • | • | | | 35 | 21 | 2.268 | 0.108 |
| CARDINAL HEALTH - NY C2449 | - | 7 14 | _ | ' | • | | • | • | • | • | ٠ | • | | 22 | 15 | 0.334 | 0.022 |
| CARDINAL HEALTH - NY C2588 | 47 | 5 15 | 2 | ' | • | 1 | • | 1 | 1 | | 1 | | 1 | 22 | 17 | 0.698 | 0.041 |
| CARDINAL HEALTH - NY C2593 | , | 1 24 | n | • | • | 1 | • | • | • | ٠ | • | | • | 28 | 27 | 1.323 | 0.049 |
| CARDINAL HEALTH - NY C2613 | | 6 | _ | ' | , | 1 | , | 1 | 1 | • | • | | • | 12 | 10 | 0.518 | 0.052 |
| CARDINAL HEALTH - OH 02500180000 | 000 | 7 22 | 8 | • | • | • | • | • | • | • | 1 | • | 1 | 32 | 25 | 0.825 | 0.033 |
| CARDINAL HEALTH - OH 02500180091 | | 3 | _ | - | • | 1 | • | , | • | 1 | • | , | • | 80 | S | 0.502 | 0.100 |
| CARDINAL HEALTH - OH 02500250000 | | 5 45 | 7 | ო | • | 1 | • | • | • | • | 1 | • | • | 09 | 22 | 2.690 | 0.049 |
| CARDINAL HEALTH - OH 02500310000 | 000 | 3 | 2 | ' | - | ~ | • | • | • | • | • | | • | 7 | 7 | 1.893 | 0.270 |
| CARDINAL HEALTH - OH 02500490001 | 10 | 29 | 5 | • | • | 1 | 1 | • | • | • | • | | 1 | 44 | 34 | 1.321 | 0.039 |
| CARDINAL HEALTH - OH 02500580000 | 000 | 3 22 | 9 | ო | • | • | • | ' | , | , | 1 | , | • | 31 | 28 | 1.961 | 0.070 |
| CARDINAL HEALTH - OH 02500770000 | 000 | 1 12 | - | ' | • | 1 | • | • | 1 | • | 1 | , | 1 | 14 | 13 | 0.409 | 0.031 |
| CARDINAL HEALTH - OH 02500790000 | 000 | ი - | _ | ' | • | | • | • | • | ſ | • | • | 1 | 10 | 10 | 0.377 | 0.038 |
| CARDINAL HEALTH - OH 03214310000 | 000 | - | - | - | • | Ψ | ' | 1 | ' | • | • | | • | 4 | 4 | 1.349 | 0.337 |
| CARDINAL HEALTH - OH 4853-19 | | 5 12 | 80 | 1 | • | 1 | 1 | 1 | ' | • | 1 | • | 1 | 56 | 8 | 1.383 | 690.0 |
| CARDINAL HEALTH - OK OK-19583-02MD | OZMD | - 14 | 9 | 00 | • | ~ | • | • | • | • | 1 | , | 1 | 56 | 26 | 4.512 | 0.174 |
| CARDINAL HEALTH - OK OK-23359-02MD | OZMD , | 4 17 | 2 | - | | 1 | 1 | 1 | • | • | 1 | • | 1 | 24 | 8 | 1.062 | 0.053 |
| CARDINAL HEALTH - OR ORE-90509 | 0 | 8 | 4 | • | • | 1 | , | • | • | | • | | | 16 | 12 | 0.732 | 0.061 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2004 (continued)

| | | | | | | | | (| | | | | | | | | |
|----------------------------------|--------------|-------------------------|----------------|---------|----------|---|---------|---------|-----------|---------|---------|--------------------|------------------------|-----------------|--------|--|------------------------|
| | | | Nu | nber of | Individu | Number of Individuals with Whole Body Doses in the Ranges (rems)* | Whole B | sod ybc | es in the | Range | (rems | | | | Nimbor | | O COLOR |
| PROGRAM CODE - LICENSEE NAME | | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- 2 | 2.00- 3 | 3.00- 4 | 4.00- 5 | 5.00- 6 6.00 13 | 6.00- 12.00 >12.0 | Total Number | | Total Collective TEDE (person-rem) | Meas. TEDE (rem) |
| NG AND DISTRIBUTI | NUCLEAR | PHARMAC | IES – 028 | 00 | l | | l | | | l | • | l | | | | | |
| CARDINAL HEALTH - OR ORE-90703 | 90703 | က | 13 | 4 | - | • | • | • | • | | | , | | 1 | 21 18 | 1.395 | 0.078 |
| CARDINAL HEALTH - OR ORE-90914 | 90914 | 4 | 16 | 9 | ო | _ | • | • | • | | | , | | 1 | 30 26 | 2.876 | 0.111 |
| CARDINAL HEALTH - PA 10239- | 10239-02-002 | 2 | • | 1 | 1 | • | , | 1 | • | 1 | • | , | | | 2 | | • |
| CARDINAL HEALTH - PA PA-0384 | 84 | 9 | 58 | - | 7 | • | • | • | • | | | , | | 1 | 38 32 | 1.541 | 0.048 |
| CARDINAL HEALTH - PA | 85 | 1 | 51 | 18 | 7 | 5 | - | • | • | 1 | | • | | ' | 98 76 | 12.990 | 0.151 |
| CARDINAL HEALTH - PA PA-0415 | 15 | 2 | 56 | œ | - | , | , | , | , | | | , | , | 1 | 37 35 | 2.728 | 0.078 |
| CARDINAL HEALTH - PA | 09 | - | 17 | _ | - | , | · | ' | • | • | | 1 | | 1 | 18 | 0.456 | 0.025 |
| CARDINAL HEALTH - PA | 43 | - | 17 | _ | • | • | • | • | | • | , | • | | , | 19 18 | 0.618 | 0.034 |
| CARDINAL HEALTH - PA PA-0680 | 88 | - | 17 | 4 | 7 | , | 1 | 1 | , | • | • | 1 | , | 1 | 24 23 | 2.127 | 0.092 |
| CARDINAL HEALTH - PA | 95 | 2 | ო | _ | - | ٠ | | • | | • | , | • | | , | 7 5 | 0.543 | 0.109 |
| CARDINAL HEALTH - RI | 4-01 | 7 | 27 | က | 1 | , | , | 1 | , | • | | , | , | 1 | | 1.072 | 0.036 |
| CARDINAL HEALTH - SC 448 | | 4 | 16 | က | 7 | • | - | • | • | • | | • | | | 26 22 | 2.689 | 0.122 |
| CARDINAL HEALTH - SC 536 | | - | • | 1 | 1 | • | | 1 | , | 1 | , | • | | , | _ _ | | • |
| CARDINAL HEALTH - SD 47111 | | 2 | 4 | • | 7 | • | • | 1 | ٠ | • | | , | | , | 18 16 | 1.002 | 0.063 |
| CARDINAL HEALTH - TN R-1919 | R-19199-B15 | 5 | 27 | 0 | - | • | | , | | • | , | • | | , | 42 37 | 2.682 | 0.072 |
| CARDINAL HEALTH - TN R-33111-I14 | 11-114 | 9 | 15 | 2 | 7 | _ | • | • | • | • | | • | | , | 26 20 | 2.102 | 0.105 |
| CARDINAL HEALTH - TN R47080-L14 | 0-L14 | 7 | 24 | 9 | 1 | • | • | • | • | • | , | • | , | , | 37 30 | 1.756 | 0.059 |
| CARDINAL HEALTH - TN R-5702 | R-57025-C15 | 3 | Ŋ | 1 | 1 | • | • | • | • | • | , | • | , | • | 8 5 | 0.223 | 0.045 |
| CARDINAL HEALTH - TN R-7102 | R-71029-B11 | - | ∞ | 2 | 1 | • | • | • | • | • | | , | | - | 11 10 | 0.389 | 0.039 |
| CARDINAL HEALTH - TN R-79174-02 | 74-02 | • | • | 2 | 7 | ٠ | | • | | • | | • | | 1 | 4 | 1.158 | 0.290 |
| CARDINAL HEALTH - TN R-7917 | R-79174-D17 | - | 18 | 2 | 7 | - | • | • | | • | | , | | , | 24 23 | 2.133 | 0.093 |
| CARDINAL HEALTH - TX | _ | 12 | 39 | 2 | 4 | 2 | • | - | • | • | | • | , | , | | 5.422 | 0.106 |
| CARDINAL HEALTH - TX L0-1999 | 66 | - | თ | 1 | 1 | • | • | • | , | • | , | • | , | , | 10 9 | 0.164 | 0.018 |
| CARDINAL HEALTH - TX L0-2033 | 83 | 3 | 56 | 7 | 4 | - | 1 | ო | , | 1 | 1 | • | , | - | 44 41 | 6.893 | 0.168 |
| CARDINAL HEALTH - TX | 48 | 23 | 19 | 9 | - | • | • | • | | • | • | • | | , | 49 26 | 1.748 | 0.067 |
| CARDINAL HEALTH - TX | | 2 | 5 | က | - | • | • | 1 | , | • | | 1 | , | 1 | 21 19 | 0.987 | 0.052 |
| CARDINAL HEALTH - TX L0-2737 | 37 | - | ო | 1 | 1 | ٠ | ٠ | ' | , | • | ī | • | , | 1 | 4 3 | 0.089 | 0.030 |
| CARDINAL HEALTH - TX L0-2905 | 35 | 2 | - | 1 | 1 | , | .1 | • | 1 | 1 | 1 | 1 | , | 1 | 6 1 | 0.015 | 0.015 |
| CARDINAL HEALTH - TX L0-3398 | 88 | _ | 7 | 1 | 1 | • | , | 1 | , | 1 | , | • | , | | 8 7 | 0.185 | 0.026 |
| CARDINAL HEALTH - TX L0-4043 | 23 | • | 7 | _ | 1 | • | • | • | , | • | | • | | 1 | 8 | 0.180 | 0.023 |
| CARDINAL HEALTH - TX L0-4573 | 73 | 4 | 52 | ო | 1 | • | , | - | , | 1 | , | | , | 1 | 33 29 | 2.154 | 0.074 |
| CARDINAL HEALTH - TX | | 4 | 4 | 4 | 1 | • | • | 1 | • | • | | • | | 1 | 22 18 | 1.045 | 0.058 |
| CARDINAL HEALTH - TX L0-4785 | 35 | က | 13 | 4 | • | • | | • | | | | | | | | 1.079 | 0.063 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2004 (continued)

| | | N | mber of | Individu | als with | Whole B | ody Dos | ses in th | Number of Individuals with Whole Body Doses in the Ranges (rems)* | (rems) | | | | | - Action N | | O S CALOUT |
|--|-------------------|-----------------|---------|----------|----------|---------|---------|-----------|---|--------------------|----------------------|------------------------|-----|-------|------------|-------------------|---------------|
| | QN | | | | | | | | | | | | - | Total | | Total Collective | Meas |
| PROGRAM CODE - LICENSEE NAME | Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- 3 | 3.00- 4.0 4.00 5. | 4.00- 5. 5.00 6 | 5.00- 6 6.00 13 | 6.00- 12.00 >12.0 | | | | TEDE (person-rem) | TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHA | AR PHARMAC | RMACIES - 02500 | 200 | | | , | | | | | | | 3 | | | | |
| CARDINAL HEALTH - TX | _ | ო | • | • | • | • | • | • | • | | 1 | | | 4 | က | 0.092 | 0.031 |
| CARDINAL HEALTH - TX | 1 | 2 | _ | - | • | 1 | • | • | , | | 1 | | , | 4 | 4 | 0.602 | 0.151 |
| CARDINAL HEALTH - US 074-1180-1 | 1 | 9 | _ | ' | 1 | • | 1 | • | • | | , | | | 7 | 7 | 0.462 | 990.0 |
| CARDINAL HEALTH - US CH-US-001 | 33 | 9/ | 24 | 32 | _ | က | 7 | | , | | - | , | Ļ | 174 | 141 | 23.648 | 0.168 |
| CARDINAL HEALTH - UT | 2 | 12 | 2 | 4 | 2 | 1 | 1 | ٠ | • | | - | , | | 22 | 20 | 3.196 | 0.160 |
| CARDINAL HEALTH - VA | б | 4 | 7 | , | , | , | , | , | , | , | 1 | , | , | 54 | 51 | 1.903 | 0.037 |
| CARDINAL HEALTH - WA | S | 28 | က | - | • | • | 1 | • | , | | • | | | 37 | 32 | 1.419 | 0.044 |
| CARDINAL HEALTH - WA | _ | 22 | 10 | 9 | • | , | • | , | ' | | • | | , | 33 | 38 | 4.526 | 0.119 |
| CARDINAL HEALTH - WA | 4 | 15 | _ | • | 1 | , | 1 | , | • | | 1 | , | , | 20 | 16 | 0.690 | 0.043 |
| CARDINAL HEALTH - WA | 2 | 4 | • | 1 | • | • | • | • | • | | 1 | | | 9 | 4 | 0.108 | 0.027 |
| CARDINAL HEALTH - WA | 9 | 49 | 0 | ω | က | 2 | • | • | • | | 1 | | , | 77 | 71 | 9.950 | 0.140 |
| CARDINAL HEALTH - WI 025-1123-01 | _ | 7 | က | - | , | • | _ | • | • | | 1 | , | | 13 | 12 | 2.654 | 0.221 |
| CARDINAL HEALTH - WI 087-1312-01 | 9 | 20 | 2 | - | • | • | • | • | • | | • | | | 59 | 23 | 1.091 | 0.047 |
| CARDINAL HEALTH - WI 141-1306-01 | _ | - | 2 | - | • | • | • | • | • | | • | , | | ß | 4 | 0.676 | 0.169 |
| CARDINAL HEALTH - WV 062819 | _ | • | • | 1 | • | • | • | • | • | | • | , | | - | • | • | • |
| GE HEALTHCARE - ANAHEIM 4810-30 | | 16 | 2 | 1 | • | • | 1 | • | • | | 1 | | | 59 | 18 | 0.830 | 0.046 |
| GE HEALTHCARE - SACRAMENTO 4809-34 | 23 | 7 | 2 | • | ٠ | • | • | • | • | | • | | • | 31 | တ | 0.617 | 690.0 |
| GE HEALTHCARE - SAN DIEGO 5796-37 | 21 | 2 | , | 1 | , | , | 1 | • | , | | -1 | | 1 | 56 | 2 | 0.112 | 0.022 |
| GE HEALTHCARE - SAN JOSE 4811-43 | O | 2 | 4 | ო | • | • | , | • | • | | , | | 1 | 21 | 12 | 1.980 | 0.165 |
| GE HEALTHCARE - VAN NUYS 5143-19 | 4 | 9 | 1 | • | 1 | • | 1 | • | | | 1 | | , | 20 | 9 | 0.106 | 0.018 |
| IBA MOLECULAR NORTH AMERICA, INC. CA-7131-43 | 7 | 1 | _ | 1 | • | • | • | • | • | | 1 | | -1 | 14 | 12 | 0.445 | 0.037 |
| MALLINCKRODT, INC. 859-01 | 17 | - | • | 1 | • | • | 1 | 1 | • | | 1 | , | | 18 | - | 0.029 | 0.029 |
| MORAVEK BIOCHEMICALS, INC. 2960-30 | 1 | 8 | 2 | 1 | • | • | _ | • | , | | | | | 23 | 23 | 2.611 | 0.114 |
| WYLE LABORATORIES FL-2953-1 | 29 | က | ' | ' | ' | , | ' | • | , | | ' | , | - 1 | 32 | ო | 0.054 | 0.018 |
| Total 160 | 669 | 2,458 | 543 | 224 | 58 | 21 | 23 | 1 | 1 | | | | • | 4,028 | 3,329 | 320.018 | 960.0 |
| WELL LOGGING BYPRODUCT AND/OR SNM SEALED SO | LED SOURCES | S ONLY - 03111 | - 03111 | | | | 1 | | | | | | | | | | |
| ISOTOPE PRODUCTS LABS 1509-19 | 2 | 25 | 6 | 2 | 5 | 2 | 0 | • | • | | - | | _ | 09 | 28 | 25.012 | 0.431 |
| Total 1 | 2 | 25 | 6 | 2 | 2 | 2 | 6 | | | | • | • | | 09 | 28 | 25.012 | 0.431 |
| MEASURING SYSTEMS PORTABLE GAUGES - 03121 | 121 | | | | | | | | | | | | | | | | |
| CPN INTERNATIONAL, INC. 1100-07 | က | 3 | 4 | е | 1 | - | - | • | • | | 1 | | 1 | 14 | 7 | 2.418 | 0.220 |
| Total 1 | က | က | 4 | က | • | - | • | • | | | • | | • | 14 | 1 | 2.418 | 0.220 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2004 (continued)

| | | | Nu | mber of | Individu | als with | Number of Individuals with Whole Body Doses in the Ranges (rems)* | dy Doses | in the F | anges (re | ms)* | | | | Mirrobar | | O S C S C S C S C S C S C S C S C S C S |
|--|-----------------|-------------|-------|---------|----------|----------|---|-------------|----------|-----------|--------|-------|-------|-----------------|----------|--------------------------|---|
| | | No Meas. | Meas. | 0.10- | 0.25- | 0.50- | 0.75- 1. | 1.00- 2.00- | 3.00- | 4.00- | 5.00- | 6.00- | | Total Number | with | Total Collective TEDE | Meas. |
| MANUFACTURING AND DISTRIBUTION – OTHER - 03214 | ION - OTHER - (| 13214 | 0.00 | 0.23 | 0.50 | | | = | | | = | | 712.0 | Worllored | ason | (person-rem) | (IeII) |
| HOCHIKI AMERICA CORP | 2090-30 | 17 | • | _ | • | • | ٠ | • | , | | | | ' | 18 | 1 | 0.179 | 0.179 |
| J. L. SHEPHERD AND ASSOCIATES | CA 1777-19 | 22 | 2 | _ | 2 | • | | • | | | | İ | 1 | 27 | 2 | 0.952 | 0.190 |
| Total | 2 | 39 | 2 | 2 | 2 | • | | • | | | | | Ì | 45 | 9 | 1.131 | 0.189 |
| INDUSTRIAL RADIOGRAPHY – FIXED LOCATION – 03310 | D LOCATION - | 03310 | | | | | | | | | | | | | | | |
| LAFAYETTE TESTING SERVICES, INC. | 079-1147-01 | _ | ო | ٠ | | | 1 | | | | | | • | 4 | 3 | 0.162 | 0.054 |
| METALTEK - WISCONSIN CENTRIFUGAL DIVISION | 133-1181-01 | 7 | _ | _ | m | | | | | | | | 1 | 12 | 9 | 1.305 | 0.261 |
| SONGS - RADIOGRAPHY GROUP | CA-5244-30 | 12 | • | • | | | , | , | | | ' | , | • | 12 | | - | ٠ |
| WAUKESHA FOUNDRY, INC WI | 133-1337-01 | m | ٠ | • | • | ٠ | | | | | ' | ' | • | 8 | ٠ | • | ٠ |
| Total | 4 | 23 | 4 | 1 | က | ٠ | | | | | | | | 31 | 8 | 1.467 | 0.183 |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – | PORARY JOBS | ITE - 03320 | | | | | | | | | | | | | | | |
| ACUREN | 133-2008-01 | 3 | თ | 7 | ω | 7 | 9 | 12 | 7 | | 5 | | • | 59 | 99 | 45.674 | 0.816 |
| ALPHA-OMEGA SERVICES, INC. | 3925-19 | 2 | 7 | 4 | 7 | - | | • | | | 97.0 | | , | 16 | 14 | 1.987 | 0.142 |
| AMERICAN ENGINEERING TESTING, INC. | 073-2012-02 | • | 7 | က | 7 | ო | • | 80 | 2 | 2 | 1/2 | | ' | 27 | 27 | 26.472 | 0.980 |
| ANVIL INTERNATIONAL, INC. | RI-3D-064-01 | _ | ო | _ | 1 | • | | | | | | | | ß | 4 | 0.241 | 090'0 |
| CONSTRUCTION MATERIALS TESTING, INC. (| 70-6620 | 4 | • | _ | - | • | | • | | | 57. | | • | 9 | 2 | 0.544 | 0.272 |
| COOPERHEAT-MQS INSPECTION | 388-01 | • | 4 | _ | 4 | • | 2 | 4 | | | 10.500 | | , | 15 | 15 | 7.974 | 0.532 |
| EDGE INSPECTION GROUP, INC. | CA-7214-48 | • | က | _ | 1 | 1 | - | - | | | , s | | , | 9 | 9 | 2.860 | 0.477 |
| FTS, INC. | OK-31027-01 | • | ო | 9 | S | ო | | က | _ | | 2 | Ċ | • | 21 | 21 | 11.675 | 0.556 |
| GREAT LAKES TESTING, INC. | 009-1116-01 | 9 | က | 2 | - | - | 7 | • | , | • | 15 | | 1 | 12 | 6 | 3.199 | 0.355 |
| INTERNATIONAL INSPECTION, INC. | 5046-19 | _ | က | 2 | 2 | - | - | , | , | | | | | 10 | თ | 2.894 | 0.322 |
| NATIONAL SERVICE DEVELOPMENT GROUP 6313-30 | 6313-30 | 1 | 4 | _ | 2 | - | | _ | , | | | Ċ | • | თ | o | 3.216 | 0.357 |
| NDE SERVICES, INC. | 406-01 | - | 4 | _ | 7 | - | - | 1 | , | | | Ċ | ' | 10 | 6 | 2.618 | 0.291 |
| NDT LABORATORIES, INC. | 1651-43 | • | - | _ | - | • | | | , | | | | | ო | 3 | 0.494 | 0.165 |
| NDT SPECIALISTS, INC. | 079-1199-01 | _ | 4 | 4 | 7 | 1 | | - | _ | | | | • | 13 | 12 | 5.611 | 0.468 |
| TC INSPECTION, INC. | 5299-07 | 17 | 17 | 2 | 9 | ω | 2 | œ | _ | | | | ' | 64 | 47 | 23.631 | 0.503 |
| TEAM INDUSTRIAL SERVICES, INC. | 079-2005-01 | 2 | Ŋ | 7 | 1 | ო | - | - | , | | | | 1 | 14 | 12 | 4.709 | 0.392 |
| TESTING ENGINEERS, INC. | 1898-01 | • | 7 | ' | ~ | ï | | 2 | ì | | - 2 | | • | 2 | 2 | 3.922 | 0.784 |
| TWIN PORTS TESTING, INC. | 031-1317-02 | 4 | Ŋ | _ | 7 | 2 | , | - | , | | | | • | 15 | 11 | 3.690 | 0.335 |
| X-RAY | 4424-48 | • | - | • | ო | • | | 2 | , | | | | • | ω | 9 | 4.408 | 0.735 |
| WESTERN X-RAY CORP | 5324-56 | 1 | 2 | 1 | 1 | 1 | ٠ | 1 | , | | | Ì | 1 | 5 | 4 | 2.628 | 0.657 |
| Total | 20 | 40 | 87 | 43 | 4 | 32 | 16 | 45 | 12 | 2 | | Ì | • | 321 | 281 | 158.447 | 0.564 |
| IRRADIATORS - OTHER - LESS THAN 10000 CURIES - 03511 | N 10000 CURIE | S - 03511 | | | | | | | | | | | | | | | |
| STRIAL NUCLEAR CO., INC. | 2229-01 | 80 | - | • | - | 1 | | 1 | | • | | | • | 12 | 4 | 2.291 | 0.573 |
| Total | _ | 8 | - | • | - | 1 | | 1 | | | | | • | 12 | 4 | 2.291 | 0.573 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2005

| | | | NI III | e ladi | | TALL TATE | Nimother of Individual County Miles Color December of the County of the | | | *1 | | | | | | | | |
|---|---------------|-----------|--------|--------|----------|-----------|---|-----------|-----------|----------|------|-------|-------|-----------|----------------------|-----------------------|-----------------------|-------------|
| | | | aniina | N I | inuais w | NA III | e bouy D | 1111 6367 | e Kaliye: | (IEIIIS) | | ľ | | | | | | |
| PROGRAM CODE - | No Meas. | Weas. | 0.10- | 0,25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- | | | 6.00- | | Total | Number with Meas. | Total Collective TEDE | Average Meas, TEDE | age TEDE |
| LICENSEE NAME | Exposure | <0.10 | 0.25 | 0.50 | 0.75 | 1.00 | 2.00 | 3.00 | 4.00 | 2.00 | 00.9 | | >12.0 | Monitored | Dose | (person-rem) | (rem) | ء |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARMACI | AR PHARMACIES | 3 - 02500 | | | | | | | | | | | | | | | | |
| CARDINAL HEALTH - AK 0707RA907-912 | 3 | 4 | - | , | • | , | 1 | • | .1 | • | 1 | , | 1 | 00 | 2 | 0.280 | | 0.056 |
| CARDINAL HEALTH - AL | m | 7 | - | • | • | • | | • | 1 | • | • | • | • | 11 | 80 | 0.255 | | 0.032 |
| CARDINAL HEALTH - AL | - | 42 | 11 | 7 | • | • | • | • | 1 | • | • | • | • | 26 | 55 | 4.437 | Ö | 0.081 |
| CARDINAL HEALTH - AR | 11 | 90 | 9 | 2 | • | • | • | • | .1 | • | • | • | • | 79 | 89 | 3.889 | Ö | 0.057 |
| CARDINAL HEALTH - AZ 01-084 | က | ω | - | - | • | • | 1 | • | 1 | • | • | • | • | 13 | 10 | 0.949 | | 0.095 |
| CARDINAL HEALTH - AZ 07-123 | 24 | 30 | 12 | т | | , | • | • | , | • | • | , | • | 69 | 45 | 3.244 | Ö | 0.072 |
| CARDINAL HEALTH - CA 2891-37 | - | 12 | 2 | ო | • | • | • | • | 1 | • | • | • | • | 18 | 17 | 1.673 | | 960.0 |
| CARDINAL HEALTH - CA 3317-19 | - | 15 | 2 | • | • | • | - | • | . 1 | • | • | • | • | 19 | 18 | 1.932 | | 0.107 |
| CARDINAL HEALTH - CA 3426-43 | • | 00 | - | • | • | • | 1 | • | 1 | • | • | , | , | တ | တ | 0.401 | Ö | 0.045 |
| CARDINAL HEALTH - CA 3469-1 | • | • | • | - | _ | • | | • | 1 | • | 1 | • | , | 2 | 2 | 0.938 | | 0.469 |
| CARDINAL HEALTH - CA 3469-2 | - | ဇ | 1 | • | _ | • | 1 | က | - | • | 1 | • | 1 | တ | 60 | 10.859 | | 1.357 |
| CARDINAL HEALTH - CA 3673-34 | 13 | 31 | 4 | • | • | • | • | • | | • | • | • | • | 48 | 35 | 1.143 | | 0.033 |
| CARDINAL HEALTH - CA 3822-19 | က | 33 | 17 | 4 | - | • | 1 | ٠ | ,1 | • | • | • | , | 28 | 55 | 5.929 | | 0.108 |
| CARDINAL HEALTH - CA 3832-01 | - | 21 | 9 | က | • | • | - | • | 1 | 1 | • | • | • | 32 | 31 | 4.215 | | 0.136 |
| CARDINAL HEALTH - CA 4905-10 | 7 | 26 | • | - | • | ٠ | | • | 1 | • | 1 | • | • | 34 | 27 | 1.023 | Ö | 0.038 |
| CARDINAL HEALTH - CA 4999-30 | 9 | 25 | 7 | • | • | • | • | • | 1 | • | • | • | • | 38 | 32 | 1.880 | | 0.059 |
| CARDINAL HEALTH - CA 5218-36 | • | 10 | 2 | 4 | 2 | • | - | • | 1 | 1 | 1 | • | • | 19 | 19 | 4.596 | | 0.242 |
| CARDINAL HEALTH - CA 5905-15 | | 9 | • | • | • | • | • | • | 1 | ٠ | 1 | • | • | 9 | 9 | 0.136 | Ö | 0.023 |
| CARDINAL HEALTH - CA 5910-50 | • | 5 | 2 | • | • | • | • | • | • | • | • | • | • | 7 | 7 | 0.355 | 0 | 0.051 |
| CARDINAL HEALTH - CA 6321-45 | 4 | က | 1 | 1 | • | • | • | • | 1 | • | • | , | • | 7 | က | 0.119 | Ö | 0.040 |
| CARDINAL HEALTH - CA 6691-33 | 1 | 10 | • | • | • | • | • | • | 1 | · | • | • | • | 10 | 10 | 0.127 | Ö | 0.013 |
| CARDINAL HEALTH - CA 6924-36 | | • | • | - | 2 | 1 | - | • | 1 | • | 1 | ٠ | • | 4 | 4 | 3.709 | 0 | 0.927 |
| CARDINAL HEALTH - CA 6925-19 | , | 4 | 2 | က | , | - | • | • | | 1 | • | , | • | 10 | 10 | 2.474 | | 0.247 |
| CARDINAL HEALTH - CO 162-06 | m | 0 | 2 | ო | - | ო | | • | 1 | • | • | • | • | 21 | 18 | 4.624 | | 0.257 |
| CARDINAL HEALTH - CO 392-01 | 39 | 34 | 0 | 9 | - | 1 | | • | | • | • | 1 | 1 | 88 | 20 | 4.709 | 0 | 0.094 |
| CARDINAL HEALTH - CO 392-03 | 1 | 27 | 9 | ß | - | , | • | • | 1 | • | • | • | • | 20 | 39 | 3.507 | 0 | 0.090 |
| CARDINAL HEALTH - CT 00163 | 4 | 26 | O | ო | • | , | • | , | 1 | • | 1 | , | • | 42 | 38 | 3.533 | | 0.093 |
| CARDINAL HEALTH - FL 1264-9 | n | 15 | က | • | • | 1 | • | • | | • | • | • | • | 21 | 18 | 0.619 | | 0.034 |
| CARDINAL HEALTH - FL 3273-7 | 7 | 12 | - | 1 | - | 1 | | • | 1 | • | 1 | , | 1 | 21 | 14 | 1.197 | 0 | 980.0 |
| CARDINAL HEALTH - FL 3453-1 | • | 4 | 2 | - | • | • | | • | 1 | • | • | , | • | 17 | 17 | 0.919 | | 0.054 |
| CARDINAL HEALTH - FL 3453-2 | 12 | 13 | 4 | 1 | • | 1 | • | • | | • | • | ٠ | 1 | 29 | 17 | 0.867 | Ö | 0.051 |
| CARDINAL HEALTH - FL 3453-3 | 4 | 17 | က | • | • | 1 | • | 1 | | • | • | • | • | 24 | 20 | 0.741 | 0 | 0.037 |
| CARDINAL HEALTH - FL 3453-5 | 9 | 11 | က | က | • | 2 | 1 | • | | | • | | • | 25 | 19 | 3.402 | 0 | 0.179 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2005 (continued)

| | | | Numbe | r of Indiv | riduals √ | vith Who | le Body D | Number of Individuals with Whole Body Doses in the Ranges (rems)* | e Range | s (rems)* | | | | | | | |
|---|-------------------------|----------------|-------|------------|-----------|----------|-----------|---|---------|-----------|-------|-------|---------|------------------------------|------------------------------|--|--------------------------------|
| PROGRAM CODE - LICENSEE NAME | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- | 4.00- | 5.00- | 6.00- | >12.0 N | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARMACIES - 02500 | PHARMACIES | - 02200 | | | | | | | | | | | | | | | |
| CARDINAL HEALTH - FL 3453-6 | 4 | 19 | 5 | က | - | • | • | • | | • | • | • | • | 32 | 28 | 3.223 | 0.115 |
| CARDINAL HEALTH - FL 3453-7 | 4 | 15 | ω | 4 | 2 | • | • | • | 1 | • | • | | • | 33 | 29 | 4.673 | 0.161 |
| CARDINAL HEALTH - FL 3453-8 | Ø | 22 | 4 | 4 | • | • | | • | 1 | • | 1 | • | 1 | 36 | 30 | 2.582 | 0.086 |
| CARDINAL HEALTH - FL 3453-9 | 8 | 17 | က | ' | ٠ | | 1 | ٠ | 1 | ٠ | , | • | • | 23 | 20 | 0.855 | 0.043 |
| CARDINAL HEALTH - FL | - | 2 | 1 | • | • | • | 1 | • | 1 | • | 1 | • | • | 9 | 5 | 0.023 | 0.005 |
| CARDINAL HEALTH - FL | - | • | 1 | • | • | • | 1 | ٠ | 1 | • | • | • | • | - | • | • | 1 |
| CARDINAL HEALTH - GA GA-467-1MD | 4 | 20 | 2 | က | _ | 1 | 1 | • | 1 | • | • | • | • | 33 | 29 | 3.076 | 0.106 |
| CARDINAL HEALTH - GA GA-467-2MD | က | 10 | 1 | • | , | , | 1 | , | 1 | • | • | • | , | 13 | 10 | 0.188 | 0.019 |
| CARDINAL HEALTH - GA | n | 2 | • | • | • | • | 1 | • | 1 | • | 1 | • | • | 5 | 2 | 0.030 | 0.015 |
| CARDINAL HEALTH - GA | _ | 13 | 2 | - | • | • | | • | 1 | • | • | • | • | 17 | 16 | 1.346 | 0.084 |
| CARDINAL HEALTH - IA 0043-1-77-NP | 5 | 14 | • | 1 | • | • | • | • | , | • | • | 1 | • | 19 | 14 | 0.375 | 0.027 |
| CARDINAL HEALTH - IL | 5 | 28 | 7 | 1 | • | • | 1 | • | 1 | • | 1 | • | • | 70 | 92 | 2.622 | 0.040 |
| CARDINAL HEALTH - IN R0358-45 | o | 24 | 2 | • | • | • | • | • | 1 | • | 1 | • | • | 35 | 26 | 0.872 | 0.034 |
| CARDINAL HEALTH - KS 20-C495-01 | 9 | 14 | 4 | 7 | • | 1 | 1 | ٠ | 1 | • | 1 | • | • | 26 | 20 | 1.564 | 0.078 |
| CARDINAL HEALTH - KY 202-204-32 | 12 | 28 | က | • | , | • | | • | 1 | • | , | • | ' | 43 | 31 | 1.232 | 0.040 |
| CARDINAL HEALTH - KY 202-206-32 | | 23 | 2 | 7 | • | • | | • | | • | • | • | • | 30 | 30 | 2.276 | 0.076 |
| CARDINAL HEALTH - LA | 4 | 3 | - | 1 | • | 1 | | , | | 1 | 1 | , | 1 | 80 | 4 | 0.212 | 0.053 |
| CARDINAL HEALTH - LA | 2 | 0 | - | 1 | • | • | • | • | , | • | • | , | • | 12 | 10 | 0.424 | 0.042 |
| CARDINAL HEALTH - LA | 23 | 16 | ო | 1 | • | • | 1 | • | 1 | 1 | 1 | • | • | 42 | 19 | 0.844 | 0.044 |
| CARDINAL HEALTH - LA | က | 21 | 4 | 1 | • | • | • | • | | • | 1 | , | • | 28 | 25 | 1.364 | 0.055 |
| CARDINAL HEALTH - LA | 4 | 10 | • | ' | • | 1 | • | ٠ | 1 | • | 1 | , | • | 14 | 10 | 0.245 | 0.025 |
| CARDINAL HEALTH - LA | 2 | 18 | 2 | 2 | - | • | 1 | • | 1 | 1 | 1 | • | • | 28 | 26 | 3.012 | 0.116 |
| CARDINAL HEALTH - LA | - | 80 | 2 | 7 | • | 1 | | • | 1 | • | 1 | , | 1 | 13 | 12 | 1.028 | 0.086 |
| CARDINAL HEALTH - MA 4008 | | - | ' | - | - | 1 | - | • | - | ' | ' | • | • | Ω | 2 | 4.940 | 0.988 |
| CARDINAL HEALTH - MA 42-0146 | က | 24 | 15 | 2 | 2 | 7 | - | , | , | • | • | , | • | 55 | 52 | 11.261 | 0.217 |
| CARDINAL HEALTH - MD MD-05-058-01 | 7 | 22 | • | 1 | 1 | • | | • | 1. | 1 | 1 | 1 | • | 29 | 22 | 0.531 | 0.024 |
| CARDINAL HEALTH - MD MD-05-148-01 | 2 | 2 | 2 | 7 | - | , | | • | | • | • | ٠ | • | 15 | 13 | 2.313 | 0.178 |
| CARDINAL HEALTH - MD MD-33-177-01 | , | _ | • | 1 | - | • | - | • | .1 | • | 1 | , | • | က | က | 1.901 | 0.634 |
| CARDINAL HEALTH - MD MD-33-198-01 | 5 | 31 | 12 | 2 | က | • | - | • | 1 | 1 | • | | • | 22 | 52 | 7.288 | 0.140 |
| CARDINAL HEALTH - MI | 7 | 19 | 5 | - | က | • | - | • | 1 | • | 1 | • | • | 36 | 29 | 4.642 | 0.160 |
| CARDINAL HEALTH - MN 1037-205-89 | 16 | 38 | 10 | က | - | • | • | • | | • | 1 | • | • | 89 | 52 | 4.241 | 0.082 |
| CARDINAL HEALTH - MN 1045-100-89 | I | | - | - | • | - | 1 | • | | 1 | 1 | • | 1 | 8 | 8 | 1.249 | 0.416 |
| CARDINAL HEALTH - MO 2840 | 4 | 29 | 7 | - | • | • | 1 | • | 1. | • | • | • | ٠ | 41 | 37 | 2.300 | 0.062 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2005 (continued)

| | | | | Number | of Indivi | duals wit | th Whole | Number of Individuals with Whole Body Doses in the Ranges (rems)* | es in the | Ranges | rems)* | | | | | | |
|--|-------------------|-------------------------|----------------|--------|-----------|-----------|----------|---|-----------|---------|-----------------------|---------------------|-------|------------------------------|------------------------------|--------------------------|-----------------------|
| PROGRAM CODE - | #ES/NEO | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- 2. | 2.00- 3 | 3.00- 4 | 4.00- 5.00 6.00 | 0- 6.00- 0 12.00 | >12.0 | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE | Average Meas. TEDI |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARMAC | TION - NUCLEAR PI | HARMACIES | | | | | | | | | | | | | | | |
| CARDINAL HEALTH - MO | 6141 | • | _ | 1 | , | , | 2 | - | , | 1 | | | | 4 | 4 | 3.079 | 0.770 |
| CARDINAL HEALTH - MS | MS-493-01 | 2 | 4 | 2 | 7 | - | | | • | • | | | | 21 | 19 | 2.182 | 0.115 |
| CARDINAL HEALTH - MS | MS-781-01 | .1 | S | 2 | 7 | ' | , | - | , | 1 | | , | , | 10 | 10 | 2.178 | 0.218 |
| CARDINAL HEALTH - MS | MS-924-01 | - | 9 | - | 4 | • | | | • | 1 | | 1 | | 12 | 1 | 1.805 | 0.164 |
| CARDINAL HEALTH - NC | 011-0794-7 | 2 | ω | , | က | ' | | 1 | , | , | | , | , | 13 | 1 | 1.369 | 0.124 |
| CARDINAL HEALTH - NC | 025-0794-10 | 2 | S | 2 | 7 | • | - | - | , | 1 | | | , | 16 | 4 | 3.847 | 0.275 |
| CARDINAL HEALTH - NC | 026-0794-8 | 2 | 7 | 9 | က | 2 | • | - | - | • | | | | 18 | 16 | 6.178 | 0.386 |
| CARDINAL HEALTH - NC | 041-0794-3 | - | 10 | 2 | - | • | ٠ | 1 | • | • | | | | 41 | 13 | 0.814 | 0.063 |
| CARDINAL HEALTH - NC | 041-0794-5 | 9 | 7 | • | - | • | | • | • | • | | , | | 41 | 00 | 0.408 | 0.051 |
| CARDINAL HEALTH - NC | 060-0794-1 | 9 | 27 | 2 | က | • | , | | • | 1 | | • | • | 38 | 32 | 1.869 | 0.058 |
| CARDINAL HEALTH - NC | 060-0794-9 | 7 | • | • | 1 | • | • | • | • | 1 | | , | | 2 | 1 | • | |
| CARDINAL HEALTH - NC | 092-1175-1 | 7 | 4 | • | • | • | , | • | | • | , | • | | 9 | 4 | 0.107 | 0.027 |
| CARDINAL HEALTH - NE | 01-65-01 | 5 | 29 | 2 | 2 | • | | | | | | | | 41 | 36 | 2.224 | 0.062 |
| CARDINAL HEALTH - NM | RP396-02 | 5 | 7 | • | - | • | | • | • | 1 | | | | 13 | 80 | 0.397 | 0.050 |
| CARDINAL HEALTH - NV | 03-11-0150-01 | 4 | 14 | 2 | 1 | • | , | • | • | • | , | , | | 23 | 19 | 1.247 | 0.066 |
| CARDINAL HEALTH - NV | 092-0794-6 | 9 | 23 | 9 | က | - | , | - | , | | , | | | 40 | 34 | 4.260 | 0.125 |
| CARDINAL HEALTH - NY | 2306-3119MD | 19 | 17 | 2 | • | • | | - | • | 1 | | | | 39 | 20 | 2.004 | 0.100 |
| CARDINAL HEALTH - NY | C2328 | 13 | 9 | က | • | • | , | | , | .1 | | | , | 22 | თ | 0.619 | 0.069 |
| CARDINAL HEALTH - NY | C2364 | 13 | 22 | ო | - | • | | • | • | 1 | , | • | • | 39 | 26 | 1.120 | 0.043 |
| CARDINAL HEALTH - NY | C2449 | 12 | 13 | - | 1 | • | , | • | | 1 | | | | 26 | 41 | 0.328 | 0.023 |
| CARDINAL HEALTH - NY | C2588 | 4 | 16 | က | • | • | • | • | , | • | | | | 23 | 19 | 0.900 | 0.047 |
| CARDINAL HEALTH - NY | C2593 | 0 | 22 | • | - | • | , | 1 | , | 1 | | • | | 32 | 23 | 0.905 | |
| CARDINAL HEALTH - NY | C2613 | 5 | 17 | ო | 1 | • | , | 1 | , | | | • | • | 25 | 20 | 0.898 | 0.045 |
| CARDINAL HEALTH - NY | C3046 | - | 2 | • | ٠ | • | | • | | 1 | | | | в | 2 | 0.028 | 0.014 |
| CARDINAL HEALTH - NY | C3153 | - | က | 1 | • | • | • | • | , | • | , | | | 4 | က | 0.193 | 0.064 |
| CARDINAL HEALTH - OH | 02500180000 | 7 | 19 | 2 | - | • | ٠ | 1 | | | | | • | 29 | 22 | 1.164 | |
| CARDINAL HEALTH - OH | 02500180091 | • | 2 | • | - | - | ٠ | | , | L | | • | | 4 | 4 | 1.086 | 0.272 |
| CARDINAL HEALTH - OH | 02500250000 | 9 | 43 | 12 | 7 | • | | | , | | | • | , | 63 | 22 | 3.496 | 0.061 |
| CARDINAL HEALTH - OH | 02500310000 | 2 | 00 | က | • | - | , | 1 | , | • | , | • | | 41 | 12 | 1.628 | 0.136 |
| CARDINAL HEALTH - OH | 02500490001 | 41 | 23 | က | - | • | ٠ | 1 | | | | | | 4 | 27 | 1.239 | 0.046 |
| CARDINAL HEALTH - OH | 02500580000 | 9 | 24 | 7 | 1 | • | | | | • | | , | | 34 | 31 | 1.541 | 0.050 |
| CARDINAL HEALTH - OH | 02500770000 | , | 00 | - | • | • | | 1 | • | | | | , | σ | თ | 0.239 | 0.027 |
| CARDINAL HEALTH - OH | 02500790000 | 2 | 6 | | | | | .1 | | | | | | 11 | 6 | 0.263 | 0.029 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2005 (continued)

| | | | Numbe | r of Indi | viduals | with Who | ele Body L | Number of Individuals with Whole Body Doses in the Ranges (rems)* | ne Range | s (rems)* | | | | | | | |
|---|-------------------------|----------------|-------|-----------|---------|----------|------------|---|----------|-----------|-------|-------|-------|------------------------------|------------------------------|--|--------------------------------|
| PROGRAM CODE - LICENSEE NAME | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 3.00 | 3.00- | 4.00- | 5.00- | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARMACIES | PHARMACIES | 9 - 02200 | | | | | | | | | | | 2 | | | | |
| CARDINAL HEALTH - OH 03214310000 | 1 | | 1 | က | • | • | • | • | • | 1 | • | • | 1 | 4 | 4 | 1.481 | 0.370 |
| CARDINAL HEALTH - OH 4853-19 | S | 17 | 9 | - | 1 | • | 1 | • | • | 1 | 1 | • | | 29 | 24 | 1.854 | 0.077 |
| CARDINAL HEALTH - OK OK-19583-02MD | - | 20 | က | က | 1 | • | • | • | • | 1 | , | • | • | 27 | 26 | 1.946 | 0.075 |
| CARDINAL HEALTH - OK OK-23359-02MD | 7 | 13 | - | • | • | • | • | • | • | • | • | • | • | 21 | 4 | 0.400 | 0.029 |
| CARDINAL HEALTH - OR ORE-90509 | n | 80 | 4 | | 1 | • | • | • | • | 1 | 1 | • | • | 15 | 12 | 0.703 | 0.059 |
| CARDINAL HEALTH - OR ORE-90703 | 9 | 16 | က | 2 | ' | • | 1 | ' | • | | 1 | • | • | 27 | 21 | 1.640 | 0.078 |
| CARDINAL HEALTH - OR ORE-90914 | 1 | 22 | o | က | 1 | • | 1 | • | • | • | 1 | • | • | 45 | 34 | 3.446 | 0.101 |
| CARDINAL HEALTH - PA 10239-02-002 | 12 | 4 | n | - | 1 | • | 1 | • | • | • | • | • | • | 30 | 18 | 1.309 | 0.073 |
| CARDINAL HEALTH - PA | 12 | 31 | n | က | • | • | • | • | • | • | • | • | 1 | 49 | 37 | 2.120 | 0.057 |
| CARDINAL HEALTH - PA | 17 | 43 | o | 0 | 4 | • | • | • | • | • | • | • | • | 82 | 92 | 8.744 | 0.135 |
| CARDINAL HEALTH - PA | n | 22 | 10 | 1 | 1 | 1 | • | • | | 1 | 1 | • | • | 35 | 32 | 3.011 | 0.094 |
| CARDINAL HEALTH - PA | 10 | 11 | - | - | 1 | • | ' | • | | | 1 | • | • | 22 | 12 | 0.561 | 0.047 |
| CARDINAL HEALTH - PA | 9 | 10 | • | ' | • | • | • | • | • | • | • | • | 1 | 16 | 10 | 0.353 | 0.035 |
| CARDINAL HEALTH - PA | - | 21 | - | 2 | 1 | - | • | • | , | 1 | 1 | • | 7 | 26 | 25 | 2.149 | 0.086 |
| CARDINAL HEALTH - PA | - | 2 | • | - | 1 | • | • | • | • | 1 | 1 | • | 1 | 4 | က | 0.352 | 0.117 |
| CARDINAL HEALTH - RI | 7 | 31 | 1 | • | • | • | • | • | • | | 1 | • | • | 38 | 31 | 0.860 | 0.028 |
| CARDINAL HEALTH - SC 448 | - | 14 | 7 | 2 | 1 | ' | 1 | 1 | • | 1 | 1 | ' | 1 | 24 | 23 | 2.517 | 0.109 |
| CARDINAL HEALTH - SD 47111 | n | 14 | 2 | - | 1 | 1 | 1 | • | • | 1 | • | • | • | 20 | 17 | 1.172 | 0.069 |
| CARDINAL HEALTH - TN R-19199-B15 | 10 | 27 | 7 | ' | 1 | • | 1 | • | • | • | 1 | • | • | 44 | 34 | 1.729 | 0.051 |
| CARDINAL HEALTH - TN R-33111-114 | - | 21 | 2 | - | • | • | • | • | • | • | • | • | • | 25 | 24 | 0.938 | 0.039 |
| CARDINAL HEALTH - TN R47080-L14 | 12 | 21 | 9 | - | 1 | 1 | 1 | • | 1 | 1 | 1 | 1 | 1 | 37 | 25 | 1.564 | 0.063 |
| CARDINAL HEALTH - TN R-57025-C15 | 5 | 5 | 1 | 1 | 1 | 1 | 1 | • | 1 | 1 | ı | 1 | ٠ | 10 | 5 | 0.114 | 0.023 |
| CARDINAL HEALTH - TN R-71029-B11 | • | 7 | 1 | 1 | T | 1 | 1 | 1 | 1 | 1 | 1 | , | • | 7 | 7 | 0.240 | 0.034 |
| CARDINAL HEALTH - TN R-79174-D17 | 2 | 12 | - | 7 | - | 1 | ' | 9 | • | 1 | 1 | , | 1 | 23 | 21 | 3.642 | 0.173 |
| CARDINAL HEALTH - TX | 16 | 45 | က | 6 | 1) | ' | 1 | • | 1 | | 1 | ٠ | r | 73 | 25 | 4.800 | 0.084 |
| CARDINAL HEALTH - TX L0-1999 | 2 | 9 | • | ' | 1 | ' | 1 | • | • | 1 | 1 | 1 | 1 | 80 | 9 | 0.089 | 0.015 |
| CARDINAL HEALTH - TX L0-2033 | 12 | 25 | 7 | က | က | - | 1 | 1 | • | 1 | 1 | 1 | 1 | 51 | 39 | 5.431 | 0.139 |
| CARDINAL HEALTH - TX L0-2048 | 22 | 13 | 4 | - | 1 | • | 1 | • | | 1 | 1 | 1 | 1 | 40 | 18 | 1.515 | 0.084 |
| CARDINAL HEALTH - TX L0-2117 | က | 17 | က | ' | 1 | • | 1 | • | • | 1 | 1 | , | ı | 23 | 20 | 0.849 | 0.042 |
| CARDINAL HEALTH - TX L0-2737 | 2 | - | - | 1 | 1 | • | • | 1 | 1 | | 1 | • | 1 | 4 | 7 | 0.126 | 0.063 |
| CARDINAL HEALTH - TX L0-3398 | 2 | 9 | 1 | 1 | 1 | 1 | 1 | • | 1 | 1 | 1 | , | 1 | 80 | 9 | 0.156 | 0.026 |
| CARDINAL HEALTH - TX L0-4043 | က | 9 | - | | ſ | ' | 1 | • | • | 1 | í | 1 | • | 10 | 7 | 0.179 | 0.026 |
| CARDINAL HEALTH - TX L0-4573 | 7 | 24 | 11 | 3 | 1 | ' | 1 | • | 1 | 1 | • | • | • | 45 | 38 | 3.301 | 0.087 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2005 (continued)

| | | | | Numbe | r of Indiv | riduals w | ith Whol | Number of Individuals with Whole Body Doses in the Ranges (rems)* | oses in th | ne Range | s (rems)* | | | | | | | |
|--|--------------|-------------------|-----------------|-------|------------|-----------|---------------|---|------------|----------|---------------|---------------|----------------|-------|---------------------|--------------------|----------------------|---------------------|
| | | No | | | | | | | | | | | | | Total | Number | Total Collective | Average |
| PROGRAM CODE - LICENSEE NAME | LICENSE# | Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- 1.00 | 1.00- | 3.00 | 3.00- | 4.00- 5.00 | 5.00- 6.00 | 6.00- 12.00 | >12.0 | Number Monitored | with Meas. Dose | TEDE (person-rem) | Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARM | - NUCLEAR PH | HARMACIES . | - 02200 | | | | | | | | | | | | | | | |
| CARDINAL HEALTH - TX L0-4781 | 1781 | 0 | Ξ | 2 | • | • | • | | • | | • | 1 | • | • | 22 | 13 | 0.503 | 0.039 |
| CARDINAL HEALTH - TX | L0-4785 | 7 | 13 | ю | • | • | • | • | • | • | 1 | 1 | • | • | 18 | 16 | 0.576 | 0.036 |
| CARDINAL HEALTH - TX L0-5 | L0-5461 | е | ς | • | • | • | • | • | • | • | 1 | 1 | • | • | 80 | 5 | 0.124 | 0.025 |
| CARDINAL HEALTH - TX L0-5 | L0-5536 | - | - | - | 1 | • | 7 | 1 | • | 1 | , | 1 | | , | S | 4 | 1.907 | 0.477 |
| CARDINAL HEALTH - US 065- | 065-0794-11 | 1 | 2 | | ' | , | , | 1 | • | , | • | • | , | , | 2 | 2 | 0.107 | 0.054 |
| CARDINAL HEALTH - US CH-I | CH-US-001 | 24 | 26 | 27 | 20 | 2 | - | 2 | • | 1 | • | , | , | • | 135 | 111 | 20.303 | 0.183 |
| CARDINAL HEALTH - UT | UT-1800225 | 2 | 19 | 4 | ' | • | • | • | • | 1 | 1 | • | • | ' | 25 | 23 | 1.700 | 0.074 |
| CARDINAL HEALTH - VA 760- | 760-34-1 | 10 | 47 | - | 4 | ' | • | ٠ | • | , | ' | ' | • | • | 62 | 52 | 2.373 | 0.046 |
| CARDINAL HEALTH - WA | WN-NP003-1 | 9 | 56 | 5 | 2 | • | ٠ | 1 | • | • | • | • | • | 1 | 39 | 33 | 2.511 | 0.076 |
| CARDINAL HEALTH - WA | WN-NP004-1 | - | 1 | 11 | 4 | - | • | 1 | • | 1 | • | 1 | • | 1 | 28 | 27 | 3.991 | 0.148 |
| CARDINAL HEALTH - WA | WN-NP005-1 | - | 24 | - | , | • | • | .1. | • | Ţ | • | , | , | • | 26 | 25 | 1.104 | 0.044 |
| CARDINAL HEALTH - WA | WN-NP006-1 | - | ις | - | • | • | • | • | • | • | • | 1 | • | • | 7 | 9 | 0.342 | 0.057 |
| CARDINAL HEALTH - WA | WN-NP011-1 | 15 | 4 | 7 | 10 | 2 | က | 1 | • | 1 | 1 | • | 1 | • | 18 | 99 | 11.721 | 0.178 |
| CARDINAL HEALTH - WI 025- | 025-1123-01 | 4 | 10 | • | ' | • | - | 1 | • | • | • | • | • | • | 16 | 12 | 2.284 | 0.190 |
| CARDINAL HEALTH - WI 087- | 087-1312-01 | 9 | 16 | က | 1 | • | , | • | • | • | 1 | 1 | 1 | • | 25 | 19 | 0.828 | 0.044 |
| CARDINAL HEALTH - WI | 141-1306-01 | က | ∞ | • | 1 | 1 | • | 1 | • | 1 | 1 | 1 | • | , | 11 | 80 | 0.238 | 0.030 |
| GE HEALTHCARE - ANAHEIM 4810 | 4810-30 | 41 | တ | 2 | • | • | ٠ | | • | ı. | • | • | • | • | 28 | 41 | 0.922 | 0.066 |
| GE HEALTHCARE - SACRAMENTO 4809 | 4809-34 | 29 | Ø | - | • | • | , | • | • | ı | 1 | 1 | • | • | 36 | 7 | 0.527 | 0.075 |
| GE HEALTHCARE - SAN DIEGO 5796 | 5796-37 | 24 | က | • | • | • | , | 1 | • | | 1 | 1 | , | • | 27 | 8 | 0.071 | 0.024 |
| GE HEALTHCARE - SAN JOSE 4811 | 4811-43 | 7 | Ω | ∞ | က | • | 1 | • | • | • | 1 | 1 | • | • | 23 | 16 | 2.424 | 0.152 |
| GE HEALTHCARE - VAN NUYS 5143 | 5143-19 | 13 | 7 | • | • | • | ٠ | 1 | • | 1 | • | • | • | , | 20 | 7 | 0.155 | 0.022 |
| IBA MOLECULAR NORTH AMERICA, INC. CA-7 | CA-7131-43 | 4 | 7 | - | 2 | 2 | - | • | • | • | 1 | 1 | • | • | 21 | 17 | 3.355 | 0.197 |
| MALLINCKRODT, INC. 859-01 | -01 | 20 | 4 | • | 1 | • | • | • | • | 1 | 1 | 1 | • | • | 24 | 4 | 0.102 | 0.026 |
| MORAVEK BIOCHEMICALS, INC. 2960 | 2960-30 | • | 15 | 9 | 2 | • | • | 1 | • | • | • | • | • | • | 23 | 23 | 2.255 | 0.098 |
| Total 156 | | 882 | 2,401 | 909 | 229 | 28 | 22 | 17 | 4 | 2 | | 1 | • | 1 | 4,121 | 3,239 | 320.742 | 0.099 |
| WELL LOGGING BYPRODUCT AND/OR SNM SEALED SOUR | SNM SEALED | | CES ONLY - 0311 | 11 | | | | | | | | | | | | | | |
| ISOTOPE PRODUCTS LABS 1509 | 1509-19 | 7 | 23 | 8 | 7 | 5 | 9 | 8 | 1 | - | • | - | • | • | 99 | 89 | 25.165 | 0.434 |
| Total 1 | | 7 | 23 | 8 | 7 | 9 | 9 | 8 | 1 | - | • | - | | - | 9 | 28 | 25.165 | 0.434 |
| MEASURING SYSTEMS PORTABLE GAUGES - 03121 | JGES - 03121 | | 8 | | | | | | | 8 | į į | | | | | | | |
| CPN INTERNATIONAL, INC. 1100 | 1100-07 | - | 7 | 4 | - | - | • | 1 | ٠ | ٠ | • | 1 | , | , | 14 | 13 | 1.656 | 0.127 |
| - | | - | 7 | 4 | - | - | • | • | | | 1 | • | 1 | | 14 | 13 | 1.656 | 0.127 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2005 (continued)

| | | | | Number | of Indiv | duals w | ith Who | Number of Individuals with Whole Body Doses in the Ranges (rems)* | oses in t | ie Range | s (rems)* | | | | | | | |
|--|------------------|------------------|-----------|--------|----------|---------|---------|---|-----------|----------|-----------|-------|-------|-------|-----------------|----------------------|--------------------------|-----------------------|
| PROGRAM CODE - | | No Meas. | Meas. | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- | 4.00- | 5.00- | 6.00- | | Total Number | Number with Meas. | Total Collective TEDE | Average Meas. TEDE |
| LICENSEE NAME | LICENSE# | Exposure | <0.10 | 0.25 | 0.50 | 0.75 | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 | | | >12.0 | Monitored | Dose | (person-rem) | (rem) |
| MANUFACTURING AND DISTRIBUTION - OTHER - 03214 | ON - OTHER - 032 | 14 | | | | | | | | | | | | | | | | |
| HOCHIKI AMERICA CORP | 2090-30 | 19 | • | 1 | • | • | 1 | • | • | ٠ | • | ٠ | • | • | 19 | • | | |
| J. L. SHEPHERD AND ASSOCIATES | CA 1777-19 | 16 | 4 | 2 | 2 | 1 | • | • | • | • | • | • | ٠ | • | 25 | 6 | 1.734 | 0.193 |
| Total | 2 | 35 | 4 | 2 | 2 | 1 | 1 | 1 | • | , | 1 | | 1 | , | 44 | 6 | 1.734 | 0.193 |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR REPACKAGING - 03234 | SSING AND/OR RE | EPACKAGIN | G - 03234 | | | | | | | | | | | | | | | |
| ENVIRONMENTAL MANAGEMENT & CONTROLS | 3546-50 | , | - | - | • | 1 | - | 7 | | , | | | , | ' | 9 | 9 | 3.120 | 0.624 |
| Total | _ | • | - | - | 1 | 1 | - | 2 | • | 1 | • | 1 | , | 1 | 2 | 9 | 3.120 | 0.624 |
| INDUSTRIAL RADIOGRAPHY – FIXED LOCATION – 03310 | D LOCATION - 033 | 10 | | | | | | | | | | | | | | | | |
| LAFAYETTE TESTING SERVICES, INC. | 079-1147-01 | ٠ | 7 | - | • | ' | ۲ | • | • | , | • | 1 | • | , | 8 | 8 | 0.596 | 0.075 |
| METALTEK - WISCONSIN CENTRIFUGAL DIVISION | 133-1181-01 | ю | 7 | 2 | - | | | 1 | | | ' | | • | ' | 8 | 5 | 0.934 | 0.187 |
| SONGS - RADIOGRAPHY GROUP | CA-5244-30 | 00 | ' | • | • | • | 1 | • | , | • | , | • | • | 1 | 8 | • | • | • |
| WAUKESHA FOUNDRY, INC WI | 133-1337-01 | 3 | • | - | • | | • | - | • | - | | - | • | - | 3 | | | * |
| Total | 4 | 14 | 6 | 3 | 1 | • | 1 | 1 | • | , | • | | | 1 | 27 | 13 | 1.530 | 0.118 |
| INDUSTRIAL RADIOGRAPHY - TEMPORARY JOB SITE - 03320 | PORARY JOB SITE | - 03320 | | | | | | | | | | | | | | | | |
| ACUREN | 133-2008-01 | 2 | 4 | 10 | 7 | - | m | 10 | - | • | • | 1 | • | • | 33 | 31 | 23.755 | 0.766 |
| AITEC USA, INC. | L05718 | S | 4 | 15 | o | 2 | 4 | ო | • | • | • | • | • | | 52 | 47 | 14.440 | 0.307 |
| ALPHA-OMEGA SERVICES, INC. | 3925-19 | 2 | 7 | 8 | - | - | 1 | - | 1 | • | - | • | • | 1 | 16 | 14 | 7.093 | 0.507 |
| AMERICAN ENGINEERING TESTING, INC. | 073-2012-02 | • | 2 | 2 | 2 | - | - | • | 4 | - | • | ٠ | • | • | 13 | 13 | 16.539 | 1.272 |
| ANVIL INTERNATIONAL, INC. | RI-3D-064-01 | - | ო | - | • | • | | 1 | • | • | • | 1 | ٠ | | Ω | 4 | 0.271 | 0.068 |
| CONSTRUCTION MATERIALS TESTING, INC. | 70-6620 | - | 4 | | - | - | • | • | | • | | • | • | • | 7 | 9 | 1.052 | 0.175 |
| COOPERHEAT-MQS INSPECTION | 388-01 | - | ო | 2 | • | 2 | - | - | • | • | • | 1 | • | , | 10 | O | 3.467 | 0.385 |
| EDGE INSPECTION GROUP, INC. | CA-7214-48 | • | က | 1 | • | - | 1 | 2 | ٠ | , | • | , | • | 1 | 9 | 9 | 2.938 | 0.490 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2005 (continued)

| | | | | Number | r of Indiv | iduals w | ith Who | e Body D | Number of Individuals with Whole Body Doses in the Ranges (rems)* | ne Range | s (rems) | , | | | | | | |
|--|-----------------|-----------|-------|--------|------------|----------|---------|----------|---|----------|----------|-------|-------|---------|----------|------------|------------------|------------|
| | | No | | | | | | | | | | | | | Total | Number | Total Collective | Average |
| PROGRAM CODE - | #HOUNDOIL | Meas. | Meas. | 0.10- | 0.25- | 0.50- | 1.00 | 1.00- | 2.00- | 3.00- | 4.00- | 5.00- | 6.00- | 400 | Number | with Meas. | TEDE | Meas, TEDE |
| GREAT LAKES TESTING, INC. | 009-1116-01 | 6 amender | 7 | 1 | 60 | 350 | | 7.00 | 2000 | | | 1 | | 7 12:0 | 22 | 13 | 2 667 | 0.205 |
| INTERNATIONAL INSPECTION INC | 5046-19 | | | | | 1 0 | 8 9 | | | | | | | S 9 | 1 5 | . « | 2 048 | 0.256 |
| IRISNOT INC. | 1-04769 | N 67 | 4 12 | 9 6 | 17 | 7 | 10 | 13 | . 6 | 4 | · m | - | | _ | 96 | 93 | 114.077 | 1 227 |
| NATIONAL SERVICE DEVELOPMENT CROLID 6313-30 | 6313.30 | . + | y u | , , | : " | % (S | | | 2 | 1 3 | , | : 9 | 0 | 1 | 14 | 5 | 5 338 | 0 444 |
| NO SERVICES INC. | 406-01 | -6 () | . 4 | ٠ - | ٠ - | - (| | 4 | | 7 9 | | 10 30 | | 00 - 30 | <u> </u> | 2 00 | 1.837 | 0.230 |
| NDT ABORATORIES INC | 1651-43 | er. | - | | | , , | | | | | | | | 0/ • | ο (c | o e. | 0.938 | 0.233 |
| NDT SPECIALISTS, INC. | 079-1199-01 | | | - | 4 | | | | 2 | | | , | | | 13 | 13 | 6.750 | 0.519 |
| TC INSPECTION, INC. | 5299-07 | 22 | 16 | 12 | ю | 9 | 24 | 80 | 7 | 0 | 1 | 9 | 9 | (3) | 71 | 49 | 23.177 | 0.473 |
| TEAM INDUSTRIAL SERVICES, INC. | 079-2005-01 | - | 4 | 8 | 2 | 2 | , | - | ٠ | | • | | | . 6 | 13 | 12 | 3.708 | 0.309 |
| TESTING ENGINEERS, INC. | 1898-01 | (* | 2 | 2 | 2 | | - | | 9 | 9 | 3 | 9 | • | 9 | 7 | 7 | 2.205 | 0.315 |
| TWIN PORTS TESTING, INC. | 031-1317-02 | 9 | က | - | 7 | | 2 | - | | | • | ٠ | • | | 15 | G | 4.130 | 0.459 |
| WESTERN INDUSTRIAL X-RAY | 4424-48 | * | * | 5 | က | 2 | 2 | 2 | | | • | | • | | 41 | 4 | 8.019 | 0.573 |
| WESTERN X-RAY CORP | 5324-56 | + | က | - | x | ু | r | × | | * | • | | • | * | 9 | 2 | 0.992 | 0.198 |
| YUBA HEAT TRANSFER | OK-13735-01 | (* | - | 2 | | | ¥ | • | • | • | • | • | • | | 2 | 2 | 0.163 | 0.082 |
| Total | 22 | 09 | 110 | 72 | 69 | 34 | 25 | 4 | 25 | 10 | 4 | - | , | (10) | 439 | 379 | 245.604 | 0.648 |
| IRRADIATORS - OTHER - LESS THAN 10000 CURIES - 03511 | AN 10000 CURIES | - 03511 | | | | | | | | | | | | | | | | |
| INDUSTRIAL NUCLEAR CO., INC. | 2229-01 | S | - | 65 | - | ~ | | - | ř. | | 8 | • | | | 6 | 4 | 2.232 | 0.558 |
| Total | - | 10 | - | | - | - | | | | | , | | 1 | 1 | σ |] ₽ | 2.232 | 0.558 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2006

| | | | Nur | ıber of lı | ndividua | s with W | hole Bod | Number of Individuals with Whole Body Doses in the Ranges (rems)* | ι the Ran | ges (rem | s)* | | | | | | |
|---|-----------------|-------------------------|----------------|------------|----------|----------|-----------|---|-----------|----------|-------|-------|-------|------------------------------|------------------------------|--|-----------------------------------|
| ROGRAM CODE - ICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- 0 | 0.75- 1.0 | 1.00- 2.00- 2.00 3.00 | 3.00- | 4.00- | 5.00- | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARMACIES – 02500 | 10N - NUCLEAR P | HARMACIES | - 02500 | | | | | | | | | | | | | | Γ |
| CARDINAL HEALTH - AK | 0707RA907-912 | • | 2 | 2 | - | 1 | | • | į | | 1 | • | • | 80 | ю | 0.789 | 0.099 |
| CARDINAL HEALTH - AL | 1068 | - | 2 | _ | • | • | | • | | | 1 | 1 | • | 7 | 9 | 0.253 | 0.042 |
| CARDINAL HEALTH - AL | 1168 | ∞ | 56 | 2 | - | , | | 1 | | ' | 1 | • | • | 4 | 32 | 1.778 | 0.056 |
| CARDINAL HEALTH - AR | ARK-642-02500 | 20 | 23 | 7 | - | • | | • | | | • | 1 | • | 81 | 19 | 3.014 | 0.049 |
| CARDINAL HEALTH - AZ | 01-084 | • | 9 | - | 2 | 1 | | • | , | | 1 | 1 | • | 6 | თ | 0.986 | 0.110 |
| CARDINAL HEALTH - AZ | 07-123 | 18 | 46 | 12 | 9 | 1 | | 1 | | | 1 | • | • | 82 | 64 | 4.786 | 0.075 |
| CARDINAL HEALTH - CA | 2891-37 | 2 | 12 | 4 | 2 | 1 | | • | | | , | • | • | 20 | 18 | 1.630 | 0.091 |
| CARDINAL HEALTH - CA | 3317-19 | • | 15 | 2 | • | • | | • | | | • | • | • | 17 | 17 | 0.780 | 0.046 |
| CARDINAL HEALTH - CA | 3426-43 | - | o | 1 | 1 | 1 | , | - | | ' | 1 | • | | 10 | တ | 0.183 | 0.020 |
| CARDINAL HEALTH - CA | 3469-1 | • | 4 | - | - | 1 | | - | | | 1 | • | • | 7 | 7 | 2.117 | 0.302 |
| CARDINAL HEALTH - CA | 3469-2 | | 2 | - | - | • | | - | | ' | 1 | • | • | 9 | 9 | 4.485 | 0.748 |
| CARDINAL HEALTH - CA | 3673-34 | 9 | 30 | 4 | • | • | | | | | 1 | • | • | 4 | 34 | 1.182 | 0.035 |
| CARDINAL HEALTH - CA | 3822-19 | ∞ | 33 | œ | 7 | 2 | - | 1 | | ' | 1 | • | • | 59 | 51 | 6.603 | 0.129 |
| CARDINAL HEALTH - CA | 3832-01 | 5 | 27 | 2 | • | - | | • | , | | • | 1 | • | 38 | 33 | 2.057 | 0.062 |
| CARDINAL HEALTH - CA | 4905-10 | 5 | 52 | က | • | • | | • | | | 1 | 1 | • | 33 | 28 | 1.240 | 0.044 |
| CARDINAL HEALTH - CA | 4999-30 | - | 15 | 13 | ω | 1 | | 1 | | ' | 1 | • | • | 37 | 36 | 5.211 | 0.145 |
| CARDINAL HEALTH - CA | 5218-36 | - | 13 | , | ო | 2 | - | • | | | 1 | 1 | • | 23 | 22 | 5.163 | 0.235 |
| CARDINAL HEALTH - CA | 5905-15 | • | 7 | • | • | • | | • | į | ' | • | 1 | • | 7 | 7 | 0.211 | 0.030 |
| CARDINAL HEALTH - CA | 5910-50 | 4 | က | _ | 1 | • | | • | | ' | 1 | 1 | • | 80 | 4 | 0.164 | 0.041 |
| CARDINAL HEALTH - CA | 6321-45 | က | က | _ | | 1 | , | 1 | | | 1 | • | • | 7 | 4 | 0.385 | 960.0 |
| CARDINAL HEALTH - CA | 6691-33 | 80 | თ | • | • | 1 | , | • | į | ' | 1 | 1 | • | 17 | თ | 0.209 | 0.023 |
| CARDINAL HEALTH - CA | 6924-36 | • | 2 | • | 7 | 1 | - | - | | | 1 | 1 | 1 | 9 | 9 | 3.271 | 0.545 |
| CARDINAL HEALTH - CA | 6925-19 | 9 | 9 | က | - | - | - | • | | | 1 | 1 | 1 | 18 | 12 | 2.693 | 0.224 |
| CARDINAL HEALTH - CO | 162-06 | - | 6 | 2 | က | က | 2 | , | | ' | 1 | 2 | • | 20 | 19 | 5.164 | 0.272 |
| CARDINAL HEALTH - CO | 392-01 | 2 | 4 | 9 | ო | - | , | 1 | | ' | 1 | 1 | 1 | 29 | 54 | 3.510 | 0.065 |
| CARDINAL HEALTH - CO | 392-03 | S | 35 | 7 | ю | - | , | 1 | | ' | 1 | 1 | 1 | 51 | 46 | 3.383 | 0.074 |
| CARDINAL HEALTH - CT | 00163 | 13 | 9 | 4 | - | 1 | 1 | • | | ' | 1 | 1 | | 48 | 35 | 1.839 | 0.053 |
| CARDINAL HEALTH - FL | 1264-9 | 9 | 15 | က | 2 | 1 | , | 1 | į | ' | 1 | ' | 1 | 29 | 23 | 2.475 | 0.108 |
| CARDINAL HEALTH - FL | 3273-7 | - | 9 | • | • | 1 | | • | | | • | • | | 7 | 9 | 0.120 | 0.020 |
| CARDINAL HEALTH - FL | 3453-1 | - | 12 | 2 | - | 1 | 1 | | | | 1 | • | 1 | 16 | 15 | 0.957 | 0.064 |
| CARDINAL HEALTH - FL | 3453-2 | 17 | 16 | 4 | • | • | | • | | ' | 1 | • | 1 | 37 | 20 | 0.757 | 0.038 |
| CARDINAL HEALTH - FL | 3453-3 | 9 | 13 | 4 | ٠ | • | | • | | | 1 | ! | • | 23 | 17 | 0.865 | 0.051 |
| CARDINAL HEALTH - FL | 3453-5 | 2 | 13 | က | 7 | | | 1 | Ì | İ | • | • | • | 28 | 23 | 3.345 | 0.145 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2006 (continued)

| | | | | | | | ` | | | | | | | | | |
|---|-------------------------|----------------|---------|----------|----------|----------------|----------|---|--------------------------|--------------------|--------------------------|---------|------------------------------|------------------------------|--|-----------------------------------|
| | | ΝN | nber of | Individu | als with | Whole B | ody Dose | Number of Individuals with Whole Body Doses in the Ranges (rems)* | anges (r | ∗(sma | | | | | | |
| PROGRAM CODE - LICENSEE NAME LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- 3.00 4. | 3.00- 4.00- 4.00 5.00 | 0- 5.00- 0 6.00 |)- 0 6.00- 0 12.00 | 0 >12.0 | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARMACIES – 02500 | R PHARMACIE | S - 02500 | | | | | | | | | | | | | | |
| CARDINAL HEALTH - FL 3453-6 | 5 | 22 | ω | _ | • | • | - | • | 1 | | | | 37 | 32 | 4.047 | 0.126 |
| CARDINAL HEALTH - FL 3453-7 | 2 | 19 | 11 | 2 | | • | • | , | 1 | | | | 37 | 35 | 4.568 | 0.131 |
| CARDINAL HEALTH - FL 3453-8 | 7 | 21 | 9 | 2 | ' | • | 1 | , | 1 | , | | • | 39 | 32 | 3.335 | 0.104 |
| CARDINAL HEALTH - FL 3453-9 | 4 | 15 | 5 | • | ' | • | • | , | 1 | | | , | 24 | 20 | 1.250 | 0.063 |
| CARDINAL HEALTH - FL | 2 | က | • | • | • | • | , | , | 1 | , | • | , | 2 | က | 0.045 | 0.015 |
| CARDINAL HEALTH - GA | 2 | 21 | 2 | 5 | , | • | 1 | | 1 | | 1 | | 30 | 28 | 2.821 | 0.101 |
| CARDINAL HEALTH - GA | - | တ | , | • | | • | 1 | | 1 | | , | | 10 | თ | 0.210 | 0.023 |
| CARDINAL HEALTH - GA | 1 | S | ' | | | • | 1 | • | 1 | | , | | ų) | S | 0.180 | 0.036 |
| CARDINAL HEALTH - GA | - | တ | 4 | _ | - | • | 1 | , | 1 | | | 1 | 16 | 15 | 1.873 | 0.125 |
| CARDINAL HEALTH - IA 0043-1-77-NP | Φ | 13 | - | • | ' | • | 1 | | 1 | | | | 22 | 14 | 0.481 | 0.034 |
| CARDINAL HEALTH - IL | ∞ | 45 | 10 | 2 | • | • | • | | | | | | 89 | 09 | 5.084 | 0.085 |
| CARDINAL HEALTH - IN R0358-45 | ∞ | 20 | 9 | • | 1 | • | 1 | | | | | | 34 | 26 | 1.257 | 0.048 |
| CARDINAL HEALTH - KS 20-C495-01 | Φ | 19 | က | | • | • | 1 | , | - | | | , | 30 | 22 | 1.140 | 0.052 |
| CARDINAL HEALTH - KY | 7 | 56 | 7 | • | • | • | • | | | | | | 4 | 33 | 1.805 | 0.055 |
| CARDINAL HEALTH - KY | - | 27 | - | _ | | | 1 | | 1 | | - | | 30 | 29 | 1.508 | 0.052 |
| CARDINAL HEALTH - KY | 1 | ю | • | • | • | • | 1 | , | 1 | | 1 | 1 | e | က | 0.047 | 0.016 |
| CARDINAL HEALTH - LA | D. | 7 | • | • | • | • | ' | , | 1 | , | | | 12 | 7 | 0.217 | 0.031 |
| CARDINAL HEALTH - LA | - | ω | - | • | • | • | 1 | | ı | | | | 10 | თ | 0.486 | 0.054 |
| CARDINAL HEALTH - LA | n | က | - | • | • | • | • | , | r | | | | 7 | 4 | 0.295 | 0.074 |
| CARDINAL HEALTH - LA | 2 | 19 | 2 | • | • | • | 1 | , | 1 | , | | | 23 | 21 | 0.941 | 0.045 |
| CARDINAL HEALTH - LA | 4 | Ф | - | • | • | • | • | , | • | | | | 13 | თ | 0.241 | 0.027 |
| CARDINAL HEALTH - LA | m | 16 | 4 | က | • | • | 1 | | - | | | | 26 | 23 | 2.240 | 0.097 |
| CARDINAL HEALTH - LA | n | თ | • | _ | 1 | 1 | • | , | - | | | | 13 | 10 | 0.368 | 0.037 |
| CARDINAL HEALTH - MA | 2 | | • | • | - | • | 4 | , | | | | | 7 | 2 | 6.404 | 1.281 |
| CARDINAL HEALTH - MA 42-0146 | œ | 21 | 23 | 9 | 9 | ю | 1 | , | • | , | | | 29 | 59 | 12.622 | 0.214 |
| CARDINAL HEALTH - MD MD-05-148-01 | m | 24 | 7 | - | • | • | • | • | - | | | | 35 | 32 | 2.007 | 0.063 |
| CARDINAL HEALTH - MD MD-33-177-01 | - | • | • | _ | - | • | - | - | • | | | | 5 | 4 | 4.470 | 1.118 |
| CARDINAL HEALTH - MD MD-33-198-01 | S | 27 | 13 | ∞ | - | - | 2 | | 1 | | | | 51 | 46 | 10.470 | 0.228 |
| CARDINAL HEALTH - MI | 10 | 22 | 4 | 9 | က | • | • | | 1 | | | | 45 | 35 | 4.793 | 0.137 |
| CARDINAL HEALTH - MN 1037-205-89 | 24 | 46 | S. | 4 | | • | • | , | - | | | | 79 | 22 | 3.375 | 0.061 |
| CARDINAL HEALTH - MN 1045-100-89 | 1 | , | • | 2 | 2 | • | 1 | , | 1 | , | | | 4 | 4 | 1.774 | 0.444 |
| CARDINAL HEALTH - MO | 12 | 34 | 2 | _ | • | • | , | , | 1 | , | | | 52 | 4 | 1.660 | 0.042 |
| CARDINAL HEALTH - MO 6141 | • | , | • | • | 2 | - | 1 | | | | | | 4 | 4 | 3.534 | 0.884 |
| | | | | | | | | | | | | | | | | |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2006 (continued)

| | | N | nher of | ndividu | le with | Whole B | ody Dose | Number of Individuals with Whole Body Doses in the Ranges (rems)* | andec (r | *lsme | | | | | | |
|------------------------------------|----------------|---------------|---------|---------|---------|---------|----------|---|-----------|---------|---------|-------|-----------------|----------------------|--------------------------|--------------------------|
| PROGRAM CODE- LICENSEE NAME | No Meas. | Meas. | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | .00- 3. | 00- 4.0 | 0- 5.00 | - 6.00- | | Total Number | Number with Meas. | Total Collective TEDE | Average Meas. TEDE |
| #ICENSE# | Exposure | <0.10 | 0.25 | 0.50 | 0.75 | 1.00 | 2.00 | 3.00 4. | 4.00 5.00 | 0 6.00 | | >12.0 | Monitored | Dose | (berson-rem) | (rem) |
| AND DISTRIBUTE | AR PHARIMACIES | ACIES - 02500 | (| (| (| | | | 1 | | | | ć | į | 1 | |
| | | 5 | 7 | 7 | N | | | | | | | | 97 | 23 | 2.708 | 0.108 |
| CARDINAL HEALTH - MS MS-781-01 | 1 | 4 | 9 | - | - | • | • | Y | , | | , | | σ | თ | 1.882 | 0.209 |
| CARDINAL HEALTH - MS MS-924-01 | n | 2 | 2 | 7 | - | • | • | , | • | | , | | 10 | 7 | 1.518 | 0.217 |
| CARDINAL HEALTH - NC 011-0794-7 | 4 | 9 | _ | 7 | 1 | • | • | • | , | | 1 | | 13 | 6 | 1.113 | 0.124 |
| CARDINAL HEALTH - NC 025-0794-10 | 2 | თ | - | က | 7 | • | 1 | , | 1 | , | | | 17 | 15 | 2.949 | 0.197 |
| CARDINAL HEALTH - NC 026-0794-8 | က | = | 4 | - | • | • | , | ť | , | | | | 19 | 16 | 1.413 | 0.088 |
| CARDINAL HEALTH - NC 041-0794-3 | 2 | ω | | • | • | • | • | | • | | | | 7 | 5 | 0.117 | 0.023 |
| CARDINAL HEALTH - NC 041-0794-5 | က | 4 | - | • | • | • | , | , | , | | | | 18 | 15 | 0.467 | 0.031 |
| CARDINAL HEALTH - NC 060-0794-1 | 7 | 23 | 4 | 2 | - | • | , | , | , | , | | | 37 | 30 | 2.203 | 0.073 |
| CARDINAL HEALTH - NE 01-65-01 | 5 | 28 | 2 | က | | • | | , | 1 | | | | 38 | 33 | 2.110 | 0.064 |
| CARDINAL HEALTH - NM RP396-02 | 9 | 10 | - | - | , | | • | • | 1 | | | | 18 | 12 | 0.451 | 0.038 |
| CARDINAL HEALTH - NV 03-11-0150-01 | S | 4 | 4 | • | | • | • | , | , | | | | 23 | 18 | 1.032 | 0.057 |
| CARDINAL HEALTH - NV 092-0794-6 | 7 | 52 | 10 | က | ю | • | 1 | , | , | | | | 48 | 41 | 5.065 | 0.124 |
| CARDINAL HEALTH - NY 2306-3119MD | 2 | φ | ' | 1 | • | • | 1 | , | 1 | | | | 80 | 9 | 0.104 | 0.017 |
| CARDINAL HEALTH - NY C2328 | 10 | ω | 2 | - | • | • | • | , | • | | | | 21 | 1 | 0.866 | 0.079 |
| CARDINAL HEALTH - NY C2364 | O | 21 | S) | • | • | • | , | ı | 1 | , | | | 35 | 26 | 1.083 | 0.042 |
| CARDINAL HEALTH - NY C2449 | n | 18 | က | 7 | • | ٠ | 1 | , | 1 | , | | | 26 | 23 | 1.312 | 0.057 |
| CARDINAL HEALTH - NY C2588 | n | 15 | 9 | • | • | • | • | , | 1 | | | | 24 | 21 | 1.847 | 0.088 |
| CARDINAL HEALTH - NY C2593 | O | 21 | - | • | • | • | • | , | - | | | | 31 | 22 | 0.833 | 0.038 |
| CARDINAL HEALTH - NY C2613 | - | 17 | 4 | • | | • | 1 | , | - | , | | | 22 | 21 | 0.864 | 0.041 |
| CARDINAL HEALTH - NY C3046 | S | ო | • | • | | ٠ | 1 | , | 1 | | | | 80 | က | 0.116 | 0.039 |
| CARDINAL HEALTH - NY C3153 | 2 | - | • | - | • | • | , | , | 1 | | | | 4 | 2 | 0.480 | 0.240 |
| CARDINAL HEALTH - OH 02500180000 | 10 | 17 | - | - | • | ٠ | ' | , | - | , | | | 29 | 19 | 0.808 | 0.043 |
| CARDINAL HEALTH - OH 02500180091 | r, | - | 2 | - | • | • | 1 | , | | , | | | 4 | 4 | 0.566 | 0.142 |
| CARDINAL HEALTH - OH 02500250000 | 9 | 4 | 10 | က | - | • | • | , | • | , | | | 09 | 52 | 4.550 | 0.084 |
| CARDINAL HEALTH - OH 02500310000 | r | 4 | 2 | 4 | • | • | • | , | , | | | | 10 | 10 | 1.826 | 0.183 |
| CARDINAL HEALTH - OH 02500490001 | 11 | 28 | 9 | • | ' | • | ' | , | 1 | , | | | 45 | 34 | 1.372 | 0.040 |
| CARDINAL HEALTH - OH 02500580000 | 16 | 4 | 2 | 2 | ' | • | , | , | 1 | | | | 34 | 18 | 1.364 | 0.076 |
| CARDINAL HEALTH - OH 02500770000 | - | 10 | - | 1 | ' | • | 1 | , | , | , | | | 12 | 1 | 0.370 | 0.034 |
| CARDINAL HEALTH - OH 02500790000 | 4 | 7 | - | • | | • | • | , | , | | | | 12 | 00 | 0.241 | 0.030 |
| CARDINAL HEALTH - OH 03214250004 | 2 | • | • | • | 1 | • | • | · | 1 | ı. | | | 2 | | ř. | C. |
| CARDINAL HEALTH - OH 03214310000 | 1 | - | • | က | • | • | , | , | 1 | | | • | 4 | 4 | 1.320 | 0.330 |
| CARDINAL HEALTH - OH 4853-19 | 7 | 10 | - | က | • | • | • | | | | | • | 21 | 14 | 1.778 | 0.127 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2006 (continued)

| | | Nu | mber of | Individu | als with | Whole | 3ody Dos | Number of Individuals with Whole Body Doses in the Ranges (rems)* | Ranges | (rems)* | | | | | | |
|--|-------------------------|----------------|---------|----------|----------|-------|----------|---|---------|-----------------|------------------|----------------------|--------------|------------------------------|--|-----------------------------------|
| PROGRAM CODE - LICENSEE NAME LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- 4 | 4.00- 5.00 6 | 5.00- 6.00 12 | 6.00- 12.00 >12.0 | Total Number | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARM | AR PHARMACIES | | | | | | | | | | | | | | | |
| CARDINAL HEALTH - OK OK-19583-02MD | - QV | 20 | 4 | • | - | • | 1 | • | • | , | • | | 2 | 5 25 | 1.596 | 0.064 |
| CARDINAL HEALTH - OK OK-23359-02MD | ND 8 | 15 | _ | 1 | • | • | 1 | • | • | | • | | - 24 | | 0.555 | 0.035 |
| CARDINAL HEALTH - OR ORE-90509 | 4 | 12 | 2 | | • | • | 1 | , | • | , | • | | - 18 | 14 | 0.679 | 0.049 |
| CARDINAL HEALTH - OR ORE-90703 | 9 | 12 | 2 | က | • | • | • | • | • | , | • | | - 23 | 3 17 | 1.673 | 0.098 |
| CARDINAL HEALTH - OR ORE-90914 | 4 | 23 | 12 | თ | - | - | 1 | • | | | • | | - 20 |) 46 | 6.775 | 0.147 |
| CARDINAL HEALTH - PA 10239-02-002 | 2 | 18 | 2 | 7 | , | • | 1 | • | | , | • | | - 24 | 4 22 | 1.726 | 0.078 |
| CARDINAL HEALTH - PA | 5 | 38 | 2 | 4 | 2 | • | 1 | • | | | | | - 54 | 4 49 | 4.322 | 0.088 |
| CARDINAL HEALTH - PA | σ | 37 | ∞ | 7 | 4 | • | 1 | ٠ | • | | | | - 65 | 5 56 | 7.162 | 0.128 |
| CARDINAL HEALTH - PA | - | 20 | 12 | • | 1 | 1 | 1 | • | 1 | , | | | - 33 | 3 32 | 2.851 | 0.089 |
| CARDINAL HEALTH - PA | 5 | 1 | 2 | 1 | • | • | 1 | • | • | , | • | | - 21 | 1 16 | 0.845 | 0.053 |
| CARDINAL HEALTH - PA | 2 | 12 | - | - | • | • | 1 | • | | , | , | | - 16 | 5 | 0.762 | 0.054 |
| CARDINAL HEALTH - PA | 2 | 18 | 2 | 4 | - | • | - | • | 1 | , | • | | . 31 | 1 29 | 4.489 | 0.155 |
| CARDINAL HEALTH - PA | 1 | • | 2 | - | • | • | • | • | • | , | • | | | 3 | 0.589 | 0.196 |
| CARDINAL HEALTH - RI | 13 | 25 | | | • | • | • | • | • | , | | | - 38 | 3 25 | 0.619 | 0.025 |
| CARDINAL HEALTH - SC 448 | 4 | 16 | - | က | • | • | • | • | • | , | • | , | - 24 | 4 20 | 1.521 | 0.076 |
| CARDINAL HEALTH - SD 47111 | - | 2 | 10 | _ | • | • | 1 | • | • | , | • | | - 17 | 7 16 | 1.839 | 0.115 |
| CARDINAL HEALTH - TN R-19199-B15 | m | 56 | 4 | 1 | • | , | 1 | • | | , | • | , | 33 | 30 | 2.088 | 0.070 |
| CARDINAL HEALTH - TN R-33111-114 | n | 22 | - | | • | • | • | • | • | , | | | - 26 | 5 23 | 0.502 | 0.022 |
| CARDINAL HEALTH - TN R47080-L14 | 13 | 18 | က | - | • | • | • | • | • | , | • | | - 35 | 5 22 | 1.441 | 990.0 |
| CARDINAL HEALTH - TN R-57025-C15 | 2 | 9 | • | 1 | • | • | 1 | 1 | • | , | • | | | 9 | 0.285 | 0.048 |
| CARDINAL HEALTH - TN R-71029-B11 | | 7 | • | • | • | • | 1 | 1 | • | , | • | | | 7 | 0.129 | 0.018 |
| CARDINAL HEALTH - TN R-79174-D17 | - | 1 | က | 7 | • | • | 1 | , | • | , | | | - 22 | 2 21 | 3.600 | 0.171 |
| CARDINAL HEALTH - TX L0-1911 | 24 | 4 | 12 | 6 | 4 | - | ı | , | 1 | , | • | | - 91 | 1 67 | 8.889 | 0.133 |
| CARDINAL HEALTH - TX | 5 | 2 | • | • | • | • | 1 | , | | , | • | | - 10 | 5 | 0.060 | 0.012 |
| CARDINAL HEALTH - TX L0-2033 | 10 | 19 | œ | 4 | ო | • | 1 | , | • | , | • | | 4 | 34 | 5.329 | 0.157 |
| CARDINAL HEALTH - TX L0-2048 | 5 | 28 | 7 | က | • | • | 1 | , | • | , | • | , | - 43 | 38 | 3.117 | 0.082 |
| CARDINAL HEALTH - TX L0-2117 | n | 18 | 4 | - | 1 | 1 | 1 | • | 1 | , | • | | - 26 | 5 23 | 1.473 | 0.064 |
| CARDINAL HEALTH - TX | - | က | • | • | • | • | 1 | , | | , | • | | | 9 | 0.101 | 0.034 |
| CARDINAL HEALTH - TX L0-3398 | - | 0 | | • | • | • | 1 | ٠ | | | | | - 10 | 6 | 0.224 | 0.025 |
| CARDINAL HEALTH - TX L0-4043 | - | 00 | - | 1 | | • | 1 | , | | | | | - 10 | 6 | 0.231 | 0.026 |
| CARDINAL HEALTH - TX L0-4573 | 13 | 33 | 7 | က | • | • | , | • | | | | | - 56 | 5 43 | 3.083 | 0.072 |
| CARDINAL HEALTH - TX L0-4781 | 1 | 10 | 7 | • | • | • | 1 | • | | | | | - 23 | | 0.560 | 0.047 |
| CARDINAL HEALTH - TX L0-4785 | 7 | 10 | က | 2 | • | • | • | • | | | | | - 2 | 2 15 | 1.159 | 0.077 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2006 (continued)

| | | Z | umber of | Individu | als with V | Vhole Bo | dy Doses | Number of Individuals with Whole Body Doses in the Ranges (rems)* | iges (ren | *(sı | | | | | | |
|--|----------------------------|-------------------|----------|----------|------------|----------|----------------------|---|-----------|-------|-------|-------|------------------------------|------------------------------|--|-----------------------------------|
| PROGRAM CODE - ICENSEE NAME LICENSE# | No Meas. E# Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- 1 | 1.00- 2.0 2.00 3. | 2.00- 3.00 4.00 | 4.00- | 5.00- | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARM | | 1ACIES - 02500 | | | | | | | | | | | | | | |
| CARDINAL HEALTH - TX | | 1 5 | - | • | • | • | 1 | | | • | | • | 7 | 9 | 0.222 | 0.037 |
| CARDINAL HEALTH - TX | | - | - | ю | 2 | • | 1 | | | • | | 1 | 7 | 7 | 2.526 | 0.361 |
| CARDINAL HEALTH - UNITED STATES R-79272-111 | -111 | | 1 | 7 | 1 | • | • | | , | • | | • | 2 | 2 | 0.767 | 0.384 |
| CARDINAL HEALTH - US 065-0794-11 | 4-11 | 1 5 | 2 | • | • | • | • | | | • | | 1 | 8 | 7 | 0.709 | 0.101 |
| CARDINAL HEALTH - US CH-US-001 | 2 2 | 18 50 | 23 | 77 | 7 | က | 4 | 2 | _ | ' | | | 139 | 111 | 34.648 | 0.312 |
| CARDINAL HEALTH - UT | 225 | - 13 | 13 | ' | 1 | | 1 | | , | , | | ' | 26 | 26 | 2.548 | 0.098 |
| CARDINAL HEALTH - VA 760-34-1 | | 6 45 | o | 4 | , | • | , | | , | , | | 1 | 64 | 28 | 4.093 | 0.071 |
| CARDINAL HEALTH - WA | 03-1 | 6 29 | 2 | - | 1 | • | • | | | • | | 1 | 38 | 32 | 1.511 | 0.047 |
| CARDINAL HEALTH - WA | 104-1 | - 23 | 5 | က | 1 | , | 1 | | , | 1 | | 1 | 31 | 31 | 2.728 | 0.088 |
| CARDINAL HEALTH - WA | 105-1 | 5 18 | 2 | • | • | • | 1 | | | , | | 1 | 25 | 20 | 0.700 | 0.035 |
| CARDINAL HEALTH - WA | 106-1 | 1 6 | 1 | - | • | • | 1 | | , | , | | 1 | 80 | 7 | 0.599 | 0.086 |
| CARDINAL HEALTH - WA | 11-1 | 5 21 | 39 | 15 | 9 | • | - | | | , | | 1 | 87 | 82 | 16.408 | 0.200 |
| CARDINAL HEALTH - WI 025-1123-01 | 3-01 | 1 14 | - | 7 | - | • | • | | | • | | 1 | 19 | 18 | 2.335 | 0.130 |
| CARDINAL HEALTH - WI 087-1312-01 | 2-01 | 8 10 | 2 | • | • | • | 1 | | | • | | 1 | 20 | 12 | 0.637 | 0.053 |
| CARDINAL HEALTH - WI | 3-01 | 2 11 | ю | 1 | • | • | 1 | | | • | | • | 16 | 14 | 0.880 | 0.063 |
| GE HEALTHCARE - ANAHEIM 4810-30 | _ | 9 13 | - | 1 | • | 1 | - | | | 1 | | 1 | 33 | 14 | 0.594 | 0.042 |
| GE HEALTHCARE - SACRAMENTO 4809-34 | 2 | 23 6 | 2 | • | • | | 1 | | | • | | 1 | 31 | 80 | 969.0 | 0.087 |
| GE HEALTHCARE - SAN DIEGO 5796-37 | _ | 1 15 | - | 1 | • | 1 | 1 | | | • | | 1 | 27 | 16 | 0.475 | 0.030 |
| GE HEALTHCARE - SAN JOSE 4811-43 | | 9 11 | 5 | - | - | • | 1 | | | , | | 1 | 27 | 18 | 2.228 | 0.124 |
| GE HEALTHCARE - VAN NUYS 5143-19 | _ | 3 5 | - | • | • | • | 1 | | | • | | • | 19 | 9 | 0.222 | 0.037 |
| IBA MOLECULAR NORTH AMERICA, INC. CA-7131-43 | -43 | 1 1 | ю | 4 | ო | 1 | - | - | | • | ' | 1 | 34 | 23 | 8.302 | 0.361 |
| MALLINCKRODT, INC. 859-01 | _ | 12 7 | 1 | • | • | • | • | , | | • | ' | 1 | 19 | 7 | 0.158 | 0.023 |
| MORAVEK BIOCHEMICALS, INC. 2960-30 | | - 18 | 7 | - | • | • | - | | İ | • | ' | • | 26 | 26 | 2.463 | 0.095 |
| WYLE LABORATORIES FL-2953-1 | | 20 6 | • | • | • | | • | , | | • | | • | 26 | 9 | 0.155 | 0.026 |
| Total 156 | 807 | 7 2,375 | 571 | 279 | 78 | 16 | 19 | 2 | | | • | | 4,151 | 3,344 | 358.759 | 0.107 |
| WELL LOGGING BYPRODUCT AND/OR SNM SEALED SOU | | RCES ONLY - 03111 | 3111 | | 43 | | | 3 | 1 7 | | | | | | | |
| ISOTOPE PRODUCTS LABS 1509-19 | | 5 25 | 11 | 7 | 4 | 9 | 6 | 1 | | - | | 1 | 89 | 63 | 27.714 | 0.440 |
| Total 1 | | 5 25 | 11 | 7 | 4 | 9 | 6 | 1 | | • | | • | 89 | 63 | 27.714 | 0.440 |
| MEASURING SYSTEMS PORTABLE GAUGES - 03121 | S - 03121 | | | | . 0 | | | | | | | | | | | 25 |
| CPN INTERNATIONAL, INC. 1100-07 | | - | 9 | 2 | • | , | 1 | | | 1 | | - | 16 | 16 | 4.552 | 0.285 |
| Total 1 | | 4 | 9 | 2 | • | | 1 | | | • | | • | 16 | 16 | 4.552 | 0.285 |
| | | | | | | | | | | | | | | | | |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2006 (continued)

| | | | Nui | nber of | Individua | IIS with V | Whole Bo | Number of Individuals with Whole Body Doses in the Ranges (rems)* | s in the | Ranges | rems)* | | | | | | |
|--|--------------------|-------------------|----------------|---------------|-----------|------------|----------|---|----------|-----------------|--------------------|---------|---------|---------------------|--------------------|----------------------|------------------|
| PROGRAM CODE - LICENSEE NAME | | No | | 3 | | | | , | | ` | | | | Total | Number | Total Collective | Average Meas. |
| | LICENSE# | Meas. Exposure | Meas. <0.10 | 0.10- 0.25 | 0.25- | 0.50 | 1.00 | 2.00 | 3.00 4 | 3.00- 4.00 5 | 4.00- 5.00 6.00 | 0 12.00 | 0 >12.0 | Number Monitored | with Meas. Dose | TEDE (person-rem) | rede (rem) |
| MANUFACTURING AND DISTRIBUTION - OTHER - 03214 | TION - OTHER - 03; | 14 | | | | | | | | | | | | | | | |
| HOCHIKI AMERICA CORP | 2090-30 | 18 | • | • | 1 | • | | • | | • | , | | | 18 | | 1 | |
| J. L. SHEPHERD AND ASSOCIATES | CA 1777-19 | 15 | 3 | 1 | 3 | 1 | 1 | • | , | • | | | | 23 | 8 | 2.039 | 0.255 |
| Total | 2 | 33 | 3 | 1 | 3 | 1 | ٠ | - | ٠ | ٠ | | | | 41 | 8 | 2.039 | 0.255 |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR REPACKAGING - 03234 | CESSING AND/OR F | REPACKAGI | VG - 03234 | | | | | | | | | | | | | | |
| ENVIRONMENTAL MANAGEMENT & CONTROLS | 3546-50 | , | ' | 2 | | 2 | - | | | • | , | | | 2 | 9 | 2.601 | 0.520 |
| Total | 1 | | ľ | 2 | ľ | 2 | - | ١. | | ١. | | | | - 5 | 5 | 2.601 | 0.520 |
| INDUSTRIAL RADIOGRAPHY - FIXED LOCATION - 03310 | (ED LOCATION – 03 | 310 | | | | | | | | | | | | | | | |
| LAFAYETTE TESTING SERVICES, INC. | 079-1147-01 | - | 7 | - | • | • | | 1 | | | | 1 | | 6 | 8 | 0.257 | 0.032 |
| METALTEK - WISCONSIN CENTRIFUGAL DIVISION | 133-1181-01 | 2 | - | - | 2 | - | | • | | • | | | į | 7 | 5 | 1.439 | 0.288 |
| SONGS - RADIOGRAPHY GROUP | CA-5244-30 | 80 | • | ' | , | • | | 1 | | • | , | | į | 00 | |] . | ٠ |
| WAUKESHA FOUNDRY, INC WI | 133-1337-01 | 4 | • | | 1 | 1 | • | 1 | • | • | , | | į | 4 | • | | • |
| Total | 4 | 15 | 8 | 2 | 2 | - | | | | | | | | - 28 | 13 | 1.696 | 0.130 |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – 03320 | MPORARY JOB SIT | E - 03320 | | | | | | | | | | | | | | | |
| ACUREN | 133-2008-01 | O | 9 | 4 | 10 | ß | 4 | 10 | က | • | , | | | 51 | 42 | 32.919 | 0.784 |
| ALPHA-OMEGA SERVICES, INC. | 3925-19 | 2 | 80 | 2 | က | 1 | • | 1 | | • | | 1 | į | 15 | 13 | 1.676 | 0.129 |
| AMERICAN ENGINEERING TESTING, INC. | 073-2012-02 | • | 2 | _ | 2 | 2 | • | - | 4 | • | , | | | 12 | 12 | 14.497 | 1.208 |
| BRAUN INTERTEC - MN | MN1082-100-27 | 5 | 7 | თ | 2 | 2 | - | 9 | • | ٠ | | | | 32 | 30 | 12.672 | 0.422 |
| CONAM INSPECTION | IL-01225-22 | 8 | 21 | 16 | 17 | 4 | 4 | 12 | 7 | • | | | | 62 | 26 | 36.716 | 0.483 |
| CONAM INSPECTION | LA-10986-201 | • | 2 | 4 | က | - | - | 1 | | • | | | į | 11 | 11 | 3.155 | 0.287 |
| CONAM INSPECTION | L05010 | 27 | 27 | 18 | 4 | 4 | D. | 30 | თ | 2 | | | | 136 | 109 | 84.643 | 0.777 |
| CONAM INSPECTION | OK-31055-01 | 1 | - | • | 1 | • | ٠ | 1 | | • | , | | | + | 1 | 0.048 | 0.048 |
| CONAM INSPECTION | 090-1058-1 | - | 9 | 9 | 7 | 4 | ო | 12 | - | • | , | | | 40 | 39 | 28.461 | 0.730 |
| CONAM INSPECTION | 1075 | • | 2 | 4 | ω | 2 | - | 7 | 2 | - | | 1 | | 29 | 29 | 20.563 | 0.709 |
| CONAM INSPECTION | 16-5591 | • | 23 | 7 | 2 | 2 | 1 | 1 | | • | | | | 37 | 37 | 4.985 | 0.135 |
| CONAM INSPECTION | 201-699-05 | • | 9 | 4 | က | 1 | ო | - | - | • | , | | į | 18 | 18 | 8.285 | 0.460 |
| CONAM INSPECTION | 21-B878 | • | 2 | • | - | - | - | 1 | , | • | , | | į | | 2 | 2.012 | 0.402 |
| CONAM INSPECTION | 3080-4315 | 2 | 4 | - | 4 | - | 1 | ю | - | • | , | | | 16 | 14 | 8.097 | 0.578 |
| CONAM INSPECTION | 03320460000 | - | - | - | က | - | - | - | - | | , | | | 10 | O | 6.756 | 0.751 |
| CONAM INSPECTION | 4832-19 | 1 | 13 | 2 | 6 | 4 | က | 9 | | • | , | | | 48 | 37 | 16.987 | 0.459 |
| CONAM INSPECTION | 4886-48 | 3 | 20 | 4 | 00 | ო | 4 | 7 | • | 1 | , | , | | - 28 | 26 | 19.822 | 0.354 |
| CONAM INSPECTION | 730 | 1 | - | - | က | 1 | 7 | - | , | -1 | , | - | | 80 | 80 | 4.107 | 0.513 |
| CONAM INSPECTION | 963-01 | 1 | က | 2 | 2 | 4 | 2 | က | - | | | | | 21 | 20 | 13.660 | 0.683 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2006 (continued)

| | | | Nur | nber of | Individu | als with | Whole Bo | Number of Individuals with Whole Body Doses in the Ranges (rems)* | s in the F | Ranges | rems)* | | | | | | |
|--|-------------------|-------------------------|----------------|---------|----------|----------|----------|---|--------------------|----------|-----------------|---------------------|----------------------|--------------------------------|----------------------|--|-----------------------------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- 2 | 2.00- 3. 3.00 4 | 3.00- 4. | 4.00- 5.00 6 | 5.00- 6. 6.00 12 | 6.00- 12.00 >12.0 | Total Number 0 Monitored | Number with Meas. | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – 03320 | PORARY JOB SIT | E-03320 | | | | | | | | | l | | | | | | |
| CONSTRUCTION MATERIALS TESTING, INC. | 70-6620 | 7 | - | - | 7 | 1 | 1 | 1 | | | | , | , | 1 | 9 | 1.029 | 0.257 |
| EDGE INSPECTION GROUP, INC. | CA-7214-48 | - | 9 | 1 | • | 2 | - | 2 | , | | | • | | | 11 11 | 5.435 | 0.494 |
| GLOBE X-RAY SERVICES, INC. | OK-15194-02 | 2 | 9 | က | ιΩ | 4 | 9 | 2 | 4 | 2 | - | • | | (,) | 38 36 | 37.428 | 1.040 |
| GREAT LAKES TESTING, INC. | 009-1116-01 | 4 | 2 | 4 | 2 | 2 | - | 2 | | | | • | | | 20 16 | 6.252 | 0.391 |
| INTERNATIONAL INSPECTION, INC. | 5046-19 | 4 | 2 | က | 7 | • | • | , | , | • | , | , | , | | 7 | 1.436 | 0.205 |
| IRIS, NDT, INC. | L-04769 | 4 | 15 | ω | 16 | 2 | 2 | 10 | 4 | 1 | | • | | | 64 60 | 35.410 | 0.590 |
| IRIS, NDT, INC. | OK-30246-02 | က | 12 | 9 | တ | 9 | œ | 21 | ω | ю | 2 | • | | - | 78 75 | 83.585 | 1.114 |
| NATIONAL SERVICE DEVELOPMENT GROUP | 6313-30 | 2 | т | 2 | ю | - | | ю | , | | | • | | , | 14 12 | 5.443 | 0.454 |
| NDE SERVICES, INC. | 406-01 | 2 | - | - | 2 | • | - | • | , | | | • | | | 7 5 | 1.591 | 0.318 |
| NDT LABORATORIES, INC. | 1651-43 | 2 | - | က | 1 | • | • | 1 | , | | | | | | 6 | 0.524 | 0.131 |
| NDT SPECIALISTS, INC. | 079-1199-01 | 2 | 4 | - | | 2 | 7 | - | , | - | | • | | • | 11 | 7.759 | 0.705 |
| SUBSURFACE IMAGING, INC. | 7449-19 | - | - | • | - | - | , | • | - | | | | | | 5 | 3.197 | 0.799 |
| TC INSPECTION, INC. | 5299-07 | 17 | 13 | თ | 10 | ю | 4 | თ | 7 | | | • | | | 67 50 | 28.176 | 0.564 |
| TEAM INDUSTRIAL SERVICES, INC. | 079-2005-01 | | 9 | က | 2 | 1 | - | • | , | | | • | | | 12 12 | 2.544 | 0.212 |
| TEAM INDUSTRIAL SERVICES, INC. | 388-01 | 2 | 9 | 2 | ß | 2 | 2 | 2 | , | | | • | , | | 21 19 | 8.205 | 0.432 |
| TESTING ENGINEERS, INC. | 1898-01 | • | 4 | _ | - | • | • | - | , | | | • | | | 7 7 | 1.912 | 0.273 |
| TWIN PORTS TESTING, INC. | 031-1317-02 | 5 | 9 | 1 | 7 | ю | • | 1 | , | | | • | | • | 11 | 2.477 | 0.225 |
| VALLEY INDUSTRIAL X-RAY & INSPECTION | CA-4182-15 | 31 | 30 | 80 | 4 | 7 | 2 | 17 | 4 | | | • | , | - 1 | 116 85 | 48.412 | 0.570 |
| WESTERN INDUSTRIAL X-RAY | 4424-48 | 1 | • | 2 | - | 7 | | 7 | - | 1 | | • | | | 8 | 7.307 | 0.913 |
| WESTERN X-RAY CORP | 5324-56 | • | 7 | _ | - | 1 | • | - | , | • | | • | | , | 10 10 | 2.295 | 0.230 |
| YUBA HEAT TRANSFER | OK-13735-01 | 1 | 3 | 1 | | - | | - | - | | | • | - | - | 5 4 | 0.344 | 0.086 |
| Total | 40 | 150 | 290 | 155 | 188 | 77 | 7.1 | 176 | 49 | 8 | 3 | • | | - 1,167 | 1,017 | 610.822 | 0.601 |
| IRRADIATORS - OTHER - LESS THAN 10000 CURIES - 03511 | IN 10000 CURIES - | 03511 | | | | | | | | | | | | | | | |
| INDUSTRIAL NUCLEAR CO., INC. | 2229-01 | 9 | 2 | 1 | • | 2 | | 1 | | -1 | , | • | | , | 11 5 | 2.474 | 0.495 |
| Total | 1 | 9 | 2 | | • | 2 | ٠ | 1 | | | | • | | - | 11 5 | 2.474 | 0.495 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2007

| | | N | mber of | Individu | als with | Number of Individuals with Whole Body Doses in the Ranges (rems)* | ody Dos | es in th | e Range | s (rems) | | | | | | | |
|------------------------------------|-------------------------|----------------|---------|----------|----------|---|---------|----------|---------|----------|-----|-------|------------------------------|--|----|--------------------------|--------------------------------|
| PROGRAM CODE - | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- | 4.00- | -00 | 6.00- | Total Number Monitored | II Number er with Meas. red Dose | | Total Collective TEDE | Average Meas. TEDE (rem) |
| NG AND DISTRIBUTIC | PHARMACIES | MACIES - 02500 | | | | | | | | | | | • | | | i | |
| CARDINAL HEALTH - AK 0707RA907-912 | 1 | 4 | - | • | 1 | 1 | • | | • | | • | , | | 2 | 2 | 0.211 | 0.042 |
| CARDINAL HEALTH - AL | - | 2 | 7 | • | • | • | 1 | 1 | 1 | • | , | | | 2 | 4 | 0.338 | 0.085 |
| CARDINAL HEALTH - AL | 5 | 20 | 00 | 9 | 2 | - | , | , | , | | , | • | | 42 | 37 | 5.576 | 0.151 |
| CARDINAL HEALTH - AR ARK-642-02500 | 12 | 22 | 9 | 1 | 1 | • | 1 | • | 1 | ٠ | • | | | 75 | 63 | 2.581 | 0.041 |
| CARDINAL HEALTH - AZ 01-084 | - | 9 | 1 | 7 | 1 | • | • | , | • | , | • | | • | თ | œ | 0.782 | 0.098 |
| CARDINAL HEALTH - AZ 07-123 | 9 | 39 | 7 | 2 | - | • | 1 | • | 1 | | • | | | 62 | 99 | 4.780 | 0.085 |
| CARDINAL HEALTH - CA 2891-37 | n | 13 | 4 | 7 | 1 | • | 1 | • | 1 | | • | | | 22 | 19 | 1.854 | 0.098 |
| CARDINAL HEALTH - CA 3317-19 | n | 17 | 2 | • | 1 | • | 1 | • | 1 | | • | | | 22 | 19 | 0.819 | 0.043 |
| CARDINAL HEALTH - CA 3426-43 | 2 | 9 | 2 | • | 1 | • | • | • | • | | • | | | 10 | 00 | 0.372 | 0.047 |
| CARDINAL HEALTH - CA 3469-1 | - | - | 1 | 2 | 2 | • | • | • | , | • | , | | | 9 | 2 | 1.811 | 0.362 |
| CARDINAL HEALTH - CA 3469-2 | 1 | • | • | 7 | 1 | • | 2 | - | 1 | ٠ | • | | | 2 | 2 | 6.045 | 1.209 |
| CARDINAL HEALTH - CA 3673-34 | S | 27 | 2 | 1 | • | • | 1 | • | 1 | • | , | | | 37 | 32 | 1.276 | 0.040 |
| CARDINAL HEALTH - CA 3822-19 | 9 | 33 | 13 | 4 | 9 | • | 1 | • | | • | 1 | | | 62 | 26 | 7.701 | 0.138 |
| CARDINAL HEALTH - CA 3832-01 | 7 | 31 | က | - | 1 | • | • | • | • | | • | | | 42 | 35 | 1.686 | 0.048 |
| CARDINAL HEALTH - CA 4905-10 | 9 | 23 | 4 | 1 | 1 | • | • | , | • | • | • | , | | 33 | 27 | 1.008 | 0.037 |
| CARDINAL HEALTH - CA 4999-30 | 9 | 22 | 9 | - | • | • | • | • | • | • | • | • | | 35 | 29 | 2.066 | 0.071 |
| CARDINAL HEALTH - CA 5218-36 | က | 13 | 1 | 7 | ო | - | • | • | 1 | 1 | • | | | 22 | 19 | 3.734 | 0.197 |
| CARDINAL HEALTH - CA 5905-15 | • | 7 | 2 | • | • | 1 | • | • | • | • | • | , | | တ | თ | 0.562 | 0.062 |
| CARDINAL HEALTH - CA 5910-50 | 2 | 2 | - | - | 1 | • | • | , | 1 | | • | | | 9 | 4 | 0.644 | 0.161 |
| CARDINAL HEALTH - CA 6321-45 | n | ည | • | 1 | 1 | , | 1 | 1 | 1 | ٠ | 1 | , | | œ | 2 | 0.048 | 0.010 |
| CARDINAL HEALTH - CA 6691-33 | 5 | 12 | 1 | • | • | • | • | • | • | • | • | | | 17 | 12 | 0.146 | 0.012 |
| CARDINAL HEALTH - CA 6924-36 | • | • | • | 7 | 1 | - | - | 1 | 1 | ٠ | , | | | 4 | 4 | 2.886 | 0.722 |
| CARDINAL HEALTH - CA 6925-19 | 7 | 7 | ო | 4 | • | - | 1 | • | • | • | • | • | | 21 | 19 | 3.127 | 0.165 |
| CARDINAL HEALTH - CO 162-06 | 4 | ω | 3 | 7 | - | 7 | • | 1 | 1 | ٠ | 1 | , | • | 25 | 21 | 5.614 | 0.267 |
| CARDINAL HEALTH - CO 392-01 | n | 44 | 7 | 2 | • | • | • | • | 1 | • | • | | | 26 | 53 | 2.644 | 0.050 |
| CARDINAL HEALTH - CO 392-03 | - | 39 | 7 | 7 | 1 | 1 | • | , | • | • | • | | • | 49 | 48 | 2.455 | 0.051 |
| CARDINAL HEALTH - CT 00163 | 5 | 59 | œ | • | • | • | • | • | 1 | • | • | , | | 42 | 37 | 1.792 | 0.048 |
| CARDINAL HEALTH - FL | - | 12 | 4 | 2 | 1 | 1 | • | 1 | 1 | ٠ | • | | | 22 | 21 | 2.699 | 0.129 |
| CARDINAL HEALTH - FL 3273-7 | 1 | 9 | - | 1 | 1 | 1 | 1 | • | 1 | 1 | , | , | | 7 | 7 | 0.190 | 0.027 |
| CARDINAL HEALTH - FL 3453-1 | 4 | 23 | O | 1 | 1 | • | • | , | 1 | • | 1 | , | | 36 | 32 | 1.787 | 0.056 |
| CARDINAL HEALTH - FL 3453-2 | 1 | 18 | 2 | , | 1 | • | • | , | 1 | | , | , | | 34 | 23 | 1.003 | 0.044 |
| CARDINAL HEALTH - FL 3453-3 | 4 | 21 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | • | | | 27 | 23 | 0.736 | 0.032 |
| CARDINAL HEALTH - FL 3453-5 | 5 | 18 | 3 | က | - | ٠ | • | | • | • | • | · | | 30 | 25 | 3.001 | 0.120 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2007 (continued)

| | | N | ımber o | f Individu | als with | Whole B | sody Dos | ses in the | Number of Individuals with Whole Body Doses in the Ranges (rems)* | rems)* | | | | | | |
|--|-------------------|----------------|---------------|------------|----------|---------|----------|------------|---|----------------------|----------------------|----------------|-------|--------------------|----------------------|---------------------|
| | No | | | | | | | | | | | | Total | Number | Total Collective | Average |
| PROGRAM CODE - LICENSEE NAME LICENSE# | Meas. Exposure | Meas. <0.10 | 0.10- 0.25 | 0.25- | 0.50- | 1.00 | 1.00- | 3.00 | 3.00- 4.00- 4.00 5.00 | 00- 5.00- 00 6.00 | 0- 6.00- 00 12.00 | 0- 00 >12.0 | Ž | with Meas. Dose | TEDE (person-rem) | Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARM | PHARMACIES | 3 - 02500 | | | | | | | | | | | | | | |
| CARDINAL HEALTH - FL 3453-6 | 7 | 20 | 9 | 1 | 1 | 1 | 1 | | 1 | , | 1 | | 37 | 26 | 1.439 | 0.055 |
| CARDINAL HEALTH - FL 3453-7 | Ø | 21 | ∞ | 2 | 1 | • | 1 | , | • | , | 1 | | 40 | 34 | 3.855 | 0.113 |
| CARDINAL HEALTH - FL 3453-8 | 10 | 25 | 4 | - | 1 | - | 1 | | • | | 1 | | 4 | 31 | 2.277 | 0.073 |
| CARDINAL HEALTH - FL 3453-9 | 7 | 19 | 4 | 1 | 1 | 1 | 1 | • | | , | 1 | | 25 | 23 | 1.055 | 0.046 |
| CARDINAL HEALTH - FL FL FL | 2 | • | | 1 | 1 | • | 1 | | • | - | 1 | | 2 | • | • | • |
| CARDINAL HEALTH - GA GA-467-1MD | S | 4 | 4 | က | 1 | 1 | 1 | , | 1 | 1 | 1 | | 26 | 21 | 2.146 | 0.102 |
| CARDINAL HEALTH - GA GA-467-2MD | 2 | o | 2 | • | 1 | • | 1 | , | 1 | , | 1 | | 13 | = | 0.479 | 0.044 |
| CARDINAL HEALTH - GA GA-467-3MD | 1 | 5 | | 1 | 1 | 1 | 1 | | | 1 | | | S | 2 | 0.051 | 0.010 |
| CARDINAL HEALTH - GA GA-823-2MD | 1 | တ | 4 | • | - | • | 1 | | • | , | 1 | | 4 | 41 | 1.363 | 0.097 |
| CARDINAL HEALTH - IA 0043-1-77-NP | 4 | 24 | | 1 | 1 | 1 | 1 | | • | 1 | 1 | | 28 | 24 | 0.638 | 0.027 |
| CARDINAL HEALTH - IL | 12 | 47 | 2 | 2 | 1 | • | 1 | | • | , | 1 | | 99 | 54 | 3.003 | 0.056 |
| CARDINAL HEALTH - IN R0358-45 | 15 | 19 | က | 1 | 1 | • | 1 | | 1 | | | | 37 | 22 | 0.759 | 0.035 |
| CARDINAL HEALTH - KS 20-C495-01 | 2 | 19 | 2 | • | - | • | 1 | , | • | , | 1 | , | 27 | 25 | 1.603 | 0.064 |
| CARDINAL HEALTH - KY 202-204-32 | e | 37 | က | 1 | 1 | 1 | • | • | • | | | | 43 | 4 | 1.508 | 0.038 |
| CARDINAL HEALTH - KY 202-206-32 | 2 | 59 | 2 | • | 1 | • | 1 | | • | | 1 | | 33 | 31 | 0.963 | 0.031 |
| CARDINAL HEALTH - KY 202-333-32 | 1 | က | • | 1 | 1 | 1 | 1 | , | • | | | | က | 8 | 0.031 | 0.010 |
| CARDINAL HEALTH - LA | 4 | 9 | • | • | 1 | • | | , | • | | | | 10 | 9 | 0.144 | 0.024 |
| CARDINAL HEALTH - LA | 7 | Ф | • | • | | • | • | | • | | | | 10 | 80 | 0.227 | 0.028 |
| CARDINAL HEALTH - LA | 1 | 18 | - | - | 1 | • | • | | • | | | | 20 | 20 | 0.898 | 0.045 |
| CARDINAL HEALTH - LA | 1 | 18 | - | • | 1 | 1 | 1 | • | • | | | | 19 | 19 | 0.960 | 0.051 |
| CARDINAL HEALTH - LA | - | 10 | • | 1 | 1 | • | 1 | , | • | , | | | 1 | 10 | 0.185 | 0.019 |
| CARDINAL HEALTH - LA | 7 | 16 | 4 | - | - | 1 | 1 | 1 | • | | | | 29 | 22 | 1.871 | 0.085 |
| CARDINAL HEALTH - LA | 4 | တ | • | - | 1 | 1 | 1 | i | 1 | 1 | 1 | | 14 | 10 | 0.465 | 0.047 |
| CARDINAL HEALTH - MA 4008 | 1 | - | - | • | 1 | - | • | 2 | 2 | - | | | 7 | 7 | 12.552 | 1.793 |
| CARDINAL HEALTH - MA 42-0146 | O | 24 | 17 | 9 | ო | 4 | - | , | • | | | | 64 | 55 | 12.763 | 0.232 |
| CARDINAL HEALTH - MD MD-05-148-01 | - | 25 | က | 4 | 1 | 1 | 1 | , | ' | | 1 | | 33 | 32 | 2.745 | 0.086 |
| CARDINAL HEALTH - MD MD-33-177-01 | ı | • | • | - | - | - | - | | • | | | | 4 | 4 | 3.323 | 0.831 |
| CARDINAL HEALTH - MD | 4 | 22 | = | က | - | , | 2 | - | • | | 1 | | 44 | 40 | 10.074 | 0.252 |
| CARDINAL HEALTH - ME 19233 | - | • | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | - | 1 | 1 | 1 |
| CARDINAL HEALTH - MI | 7 | 20 | S | - | - | ' | 1 | | • | | 1 | | 34 | 27 | 2.135 | 0.079 |
| CARDINAL HEALTH - MN 1037-205-89 | 16 | 49 | 2 | က | 1 | 1 | 1 | 1 | • | 1 | - | | 73 | 22 | 2.917 | 0.051 |
| CARDINAL HEALTH - MN 1045-100-89 | 1 | • | • | 1 | က | - | 1 | ì | | | | | 4 | 4 | 2.500 | 0.625 |
| CARDINAL HEALTH - MO | 13 | 39 | 4 | - | 1 | , | 1 |) | 1 | - | , | 1 | 57 | 4 | 1.685 | 0.038 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2007 (continued)

| | | | Z | umber o | f Individ | uals with | Whole E | 3ody Dos | ses in th | e Range | Number of Individuals with Whole Body Doses in the Ranges (rems)* | | | | | | |
|---|----------------------|-------------------------|----------------|---------------|-----------|-----------|---------|----------|---------------|---------|---|-----------------|-------|------------------------------|------------------------------|--|--------------------------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- 0.25 | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- 3.00 | 3.00- | 4.00- 5.00 6 | 5.00- 6.00 1 | 6.00- | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARMACIES - 02500 | IBUTION - NUCLEAR PI | HARMACIES | S - 02500 | | | | | | | | | | | | | | Γ |
| CARDINAL HEALTH - MO | 6141 | • | - | • | ' | 1 | 2 | 2 | • | .1 | , | • | 1 | 5 | S | 4.595 | 0.919 |
| CARDINAL HEALTH - MS | MS-493-01 | 2 | 1 | 4 | 4 | • | - | | | 1 | • | • | • | - 22 | 20 | 3.368 | 0.168 |
| CARDINAL HEALTH - MS | MS-781-01 | 2 | က | ю | 1 | | - | • | • | .1 | • | • | , | 6 | 7 | 1.428 | 0.204 |
| CARDINAL HEALTH - MS | MS-924-01 | 2 | 4 | က | _ | , | 1 | 1 | • | 1 | • | | | - 10 | 00 | 1.091 | 0.136 |
| CARDINAL HEALTH - MS | MS-974-01 | • | ' | | _ | 1 | - | - | ٠ | 1 | | • | , | е . | ю | 2.539 | 0.846 |
| CARDINAL HEALTH - NC | 011-0794-7 | က | 2 | 2 | , | - | 1 | 1 | , | 1 | , | • | | - 11 | 80 | 1.095 | 0.137 |
| CARDINAL HEALTH - NC | 025-0794-10 | 2 | 10 | 2 | 2 | 1 | 1 | , | • | 1 | , | • | | - 16 | 4 | 1.232 | 0.088 |
| CARDINAL HEALTH - NC | 026-0794-8 | 4 | 13 | _ | 1 | 1 | • | 1 | 1 | 1 | • | • | | - 18 | 14 | 0.680 | 0.049 |
| CARDINAL HEALTH - NC | 041-0794-5 | т | 16 | 3 | 1 | 1 | • | , | 1 | 1 | | ٠ | • | - 22 | 19 | 0.693 | 0.036 |
| CARDINAL HEALTH - NC | 060-0794-1 | 5 | 28 | 5 | က | - | - | 1 | 1 | 1 | | • | | - 43 | 38 | 4.025 | 0.106 |
| CARDINAL HEALTH - NE | 01-65-01 | 9 | 31 | 9 | 1 | • | • | • | 1 | 1 | | • | • | - 43 | 37 | 2.097 | 0.057 |
| CARDINAL HEALTH - NM | RP396-02 | 7 | 11 | _ | 1 | 1 | • | • | • | 1 | • | • | • | - 19 | 12 | 0.269 | 0.022 |
| CARDINAL HEALTH - NV | 03-11-0150-01 | 5 | 41 | 4 | , | 1 | 1 | 1 | 1 | 1 | • | • | | - 23 | 18 | 1.101 | 0.061 |
| CARDINAL HEALTH - NV | 092-0794-6 | 2 | 29 | 7 | 4 | _ | , | • | • | 1 | , | • | | - 43 | 4 | 4.315 | 0.105 |
| CARDINAL HEALTH - NY | 2306-3119MD | က | - | ' | 1 | 1 | 1 | 1 | • | .1 | • | , | | 4 | - | 0.004 | 0.004 |
| CARDINAL HEALTH - NY | C2328 | 5 | 12 | 4 | 2 | 1 | • | • | • | 1 | | • | | . 23 | 18 | 1.719 | 960.0 |
| CARDINAL HEALTH - NY | C2364 | 19 | 19 | 9 | 1 | 1 | • | • | 1 | 1 | • | • | • | - 4 | 22 | 0.933 | 0.042 |
| CARDINAL HEALTH - NY | C2449 | 13 | 00 | 2 | 2 | 1 | 1 | • | • | 1 | | • | • | - 25 | 12 | 1.034 | 0.086 |
| CARDINAL HEALTH - NY | C2588 | S | 41 | - | 1 | 1 | 1 | • | 1 | -1 | , | • | • | - 20 | 15 | 0.548 | 0.037 |
| CARDINAL HEALTH - NY | C2593 | 00 | 23 | 2 | 1 | 1 | 1 | 1 | , | 1 | • | • | | - 33 | 25 | 0.766 | 0.031 |
| CARDINAL HEALTH - NY | C2613 | က | 19 | 2 | 1 | 1 | • | , | • | 1 | | ٠ | , | - 24 | 21 | 0.700 | 0.033 |
| CARDINAL HEALTH - NY | C3046 | 4 | 14 | , | 1 | 1 | 1 | 1 | 1 | 1 | • | • | • | - 18 | 4 | 0.203 | 0.015 |
| CARDINAL HEALTH - NY | C3153 | 2 | 2 | _ | 2 | - | • | • | • | , | | • | | 80 | 9 | 1.671 | 0.279 |
| CARDINAL HEALTH - OH | 02500180000 | 13 | 17 | 2 | 1 | 1 | • | • | ٠ | 1 | | • | , | - 32 | 19 | 0.732 | 0.039 |
| CARDINAL HEALTH - OH | 02500180091 | • | - | _ | 2 | _ | 1 | 1 | • | - 1 | | • | | . 2 | S | 1.675 | 0.335 |
| CARDINAL HEALTH - OH | 02500250000 | 19 | 30 | 10 | 4 | - | 1 | • | 1 | 1 | | • | | - 64 | 45 | 4.403 | 0.098 |
| CARDINAL HEALTH - OH | 02500310000 | • | 2 | 5 | 2 | 2 | • | • | 1 | 1 | • | ٠ | | - 14 | 14 | 2.733 | 0.195 |
| CARDINAL HEALTH - OH | 02500490001 | 17 | 26 | 2 | 1 | • | • | • | • | 1 | | • | | - 48 | 31 | 1.320 | 0.043 |
| CARDINAL HEALTH - OH | 02500580000 | 1 | 21 | ю | က | 1 | • | , | 1 | 1 | 1 | • | • | . 38 | 27 | 1.867 | 0.069 |
| CARDINAL HEALTH - OH | 02500770000 | 2 | 2 | • | r | 1 | 1 | • | 1 | 1 | • | • | - | - 10 | 5 | 0.044 | 0.009 |
| CARDINAL HEALTH - OH | 02500790000 | • | 12 | - | ' | 1 | • | • | 1 | 1 | , | • | • | - 13 | 13 | 0.321 | 0.025 |
| CARDINAL HEALTH - OH | 03214310000 | • | • | • | - | က | • | • | • | 1 | • | • | | 4 | 4 | 1.948 | 0.487 |
| CARDINAL HEALTH - OH | 4853-19 | ω | = | - | 2 | • | ١ | • | • | , | | 1 | | - 22 | 14 | 1.103 | 0.079 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2007 (continued)

| | | N | mbor | Individ | Number of Individuals with Whole Body Doses in the Bandes frame)* | Whole | ad vbos | eac in th | o Pando | sumou) | | | | | | | |
|------------------------------------|----------------|-------|-------|---------|---|----------|----------|-----------|----------|--------|-------|-------|-----|-----------------|-------------------|-----------------------|------------------|
| | | | n ne | | Talls with | A A I CO | od y poe | 11 | e naiige | (1111) | l | ŀ | T | | | | |
| PROGRAM CODE - | No Meas. | Meas. | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- | 4.00- | 5.00- | 6.00- | Nun | Total Number wi | Number with Meas. | Total Collective TEDE | Average Meas. |
| NG AND DISTRIBUTIC | PHARMACIES | | 2 | | | 2 | | | | | | 3 | | 200 | 2600 | (hersonad) | |
| CARDINAL HEALTH - OK OK-19583-02MD | 2 | 15 | 5 | - | | • | • | | • | | | | | 23 | 21 | 1.466 | 0.070 |
| CARDINAL HEALTH - OK OK-23359-02MD | r _C | 17 | 2 | - | 1 | | 1 | , | 1 | • | 1 | | - 1 | 25 | 20 | 1.053 | 0.053 |
| CARDINAL HEALTH - OR ORE-90509 | 2 | 12 | 4 | - | 1 | 1 | 1 | , | 1 | • | , | | | 19 | 17 | 1.264 | 0.074 |
| CARDINAL HEALTH - OR ORE-90703 | - | 12 | - | - | 2 | • | 1 | • | 1 | • | • | | • | 17 | 16 | 1.948 | 0.122 |
| CARDINAL HEALTH - OR ORE-90914 | 4 | 16 | 1 | O | - | - | - | • | • | ٠ | • | 1 | • | 43 | 39 | 7.764 | 0.199 |
| CARDINAL HEALTH - PA 10239-02-002 | S | 14 | 5 | 4 | 1 | 7 | 1 | • | 1 | • | • | | | 30 | 25 | 4.045 | 0.162 |
| CARDINAL HEALTH - PA AC50-58988 | | 2 | • | - | | • | 1 | • | | ٠ | 1 | | • | ဗ | ო | 0.521 | 0.174 |
| CARDINAL HEALTH - PA | 10 | 4 | ω | 4 | - | - | 1 | • | 1 | • | • | | | 64 | 54 | 5.123 | 0.095 |
| CARDINAL HEALTH - PA | 7 | 35 | 10 | 7 | 4 | • | 1 | • | 1 | ٠ | , | | • | 63 | 26 | 7.630 | 0.136 |
| CARDINAL HEALTH - PA | • | 20 | 0 | | 1 | • | 1 | • | 1 | • | 1 | • | | 59 | 29 | 2.518 | 0.087 |
| CARDINAL HEALTH - PA | 7 | 13 | 4 | | • | • | 1 | • | 1 | ٠ | • | | • | 24 | 17 | 1.038 | 0.061 |
| CARDINAL HEALTH - PA | 4 | 1 | - | , | • | • | 1 | • | • | ٠ | • | • | • | 16 | 12 | 0.460 | 0.038 |
| CARDINAL HEALTH - PA | φ | 19 | ю | ო | 2 | • | 1 | , | 1 | , | , | , | • | 33 | 27 | 3.201 | 0.119 |
| CARDINAL HEALTH - RI 3B-114-01 | o | 28 | - | | 1 | • | 1 | ٠ | 1 | ٠ | • | | | 38 | 59 | 0.668 | 0.023 |
| CARDINAL HEALTH - SC 448 | m | 15 | 7 | က | • | • | 1 | • | 1 | ٠ | • | • | • | 23 | 20 | 1.629 | 0.081 |
| CARDINAL HEALTH - SD 47111 | 2 | 14 | 2 | 1 | 1 | • | 1 | • | 1 | ٠ | • | | | 18 | 16 | 1.151 | 0.072 |
| CARDINAL HEALTH - TN R-19199-B15 | Φ | 24 | 2 | 1 | • | • | 1 | • | • | ٠ | • | • | • | 34 | 26 | 0.947 | 0.036 |
| CARDINAL HEALTH - TN R-33111-114 | 2 | 17 | 2 | 1 | • | • | 1 | • | 1 | ٠ | • | | , | 21 | 19 | 0.643 | 0.034 |
| CARDINAL HEALTH - TN R47080-L14 | S | 27 | 2 | - | • | 1 | 1 | • | • | ٠ | • | | • | 38 | 33 | 1.495 | 0.045 |
| CARDINAL HEALTH - TN R-57025-C15 | - | 2 | - | • | • | 1 | 1 | • | 1 | ٠ | 1 | | • | 7 | 9 | 0.198 | 0.033 |
| CARDINAL HEALTH - TN R-71029-B11 | - | 7 | • | 1 | • | • | 1 | • | 1 | ٠ | • | • | • | 80 | 7 | 0.118 | 0.017 |
| CARDINAL HEALTH - TN R-79174-D17 | m | 11 | 2 | 9 | • | • | 1 | • | 1 | ٠ | • | | • | 25 | 22 | 3.003 | 0.137 |
| CARDINAL HEALTH - TX | 21 | 37 | ω | 10 | က | • | 1 | • | 1 | ٠ | • | • | • | 79 | 28 | 6.874 | 0.119 |
| CARDINAL HEALTH - TX | • | 9 | • | 1 | • | 1 | 1 | , | • | ٠ | • | , | • | 9 | 9 | 0.125 | 0.021 |
| CARDINAL HEALTH - TX L0-2033 | 12 | 19 | O | 2 | က | 1 | 1 | • | 1 | • | • | , | | 48 | 36 | 5.352 | 0.149 |
| CARDINAL HEALTH - TX | 14 | 21 | 9 | ю | - | 1 | 1 | , | 1 | ٠ | , | , | • | 45 | 31 | 2.972 | 960.0 |
| CARDINAL HEALTH - TX | - | 19 | 2 | - | • | • | 1 | • | 1 | • | 1 | , | • | 23 | 22 | 0.992 | 0.045 |
| CARDINAL HEALTH - TX L0-2737 | 2 | က | 1 | 1 | | 1 | 1 | , | • | 1 | 1 | , | • | 2 | 3 | 0.066 | 0.022 |
| CARDINAL HEALTH - TX | ო | 7 | 1 | • | • | 1 | 1 | , | 1 | ٠ | 1 | • | • | 10 | 7 | 0.220 | 0.031 |
| CARDINAL HEALTH - TX | 2 | 9 | , | 1 | 1 | | 1 | , | 1 | ٠ | 1 | | • | 80 | 9 | 0.126 | 0.021 |
| CARDINAL HEALTH - TX | 12 | 26 | 10 | 2 | 1 | • | • | , | • | ٠ | • | , | • | 54 | 42 | 4.843 | 0.115 |
| CARDINAL HEALTH - TX | 12 | 11 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | • | | 24 | 12 | 0.518 | 0.043 |
| CARDINAL HEALTH - TX L0-4785 | 8 | 11 | 4 | • | • | • | • | • | • | ٠ | ٠ | | • | 18 | 15 | 0.766 | 0.051 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2007 (continued)

| | | | ľ | ĺ | | | | | | Į | ľ | ı | ı | | | | | |
|--|--------------|----------------|-----------|---------|---------|------------|----------|---|-----------|-----------|----------|-----------|-------|-----------------|----------------------|-----------------------|------------------|-----|
| | | | unu - | nber of | ndividu | ais with v | Whole Be | Number of Individuals with Whole Body Doses in the Kanges (rems)* | s in the | kanges | rems) | ŀ | | | | | | |
| PROGRAM CODE. | | No Meas. | Meas. | 0.10- | 0.25- | 0.50- | 0.75- 1 | 1.00- 2. | 2.00- 3.0 | 3.00- 4.0 | 4.00- 5. | 5.00- 6.0 | 6.00- | Total Number | Number with Meas. | Total Collective TEDE | Average Meas. | n i |
| NG AND DISTRIBUTIC | JCLEAR PHAR | MACIES - 02500 | _ | | | | | | | | | | | | | | | |
| CARDINAL HEALTH - TX L0-5461 | | - | 9 | • | • | 1 | 1 | • | , | | | | | | 9 2 | 0.120 | 0.020 | 0 |
| CARDINAL HEALTH - TX L0-5536 | | • | , | - | - | 2 | , | • | , | | | - | , | | 4 | 1.638 | 0.410 | 0 |
| CARDINAL HEALTH - TX L0-5610 | | - | - | - | • | - | • | , | - | | | 1 | | | 5 | 3.550 | 0.888 | 88 |
| CARDINAL HEALTH - UNITED STATES R-79272-111 | 2-111 | - | • | • | • | 2 | - | | , | | | • | | | 4 3 | 2.204 | 0.735 | 22 |
| CARDINAL HEALTH - US 065-0794-11 | 11-11 | • | 9 | 2 | - | 1 | • | • | | • | | • | | - | 6 | 0.714 | 0.079 | 6 |
| CARDINAL HEALTH - US CH-US-001 | 001 | 20 | 4 | 16 | 10 | 4 | ю | , | - | - | | • | , | Ĺ | 95 75 | 17.850 | 0.238 | 82 |
| CARDINAL HEALTH - UT | 3225 | • | 18 | 7 | - | 1 | • | , | , | | | | | Ĺ | 26 26 | 2.280 | 0.088 | 88 |
| CARDINAL HEALTH - VA | _ | 7 | 46 | თ | - | • | • | , | , | | , | , | , | | 63 56 | 3.246 | 0.058 | 88 |
| CARDINAL HEALTH - WA | 003-1 | 3 | 28 | - | 7 | • | • | 1 | | | | • | | | 34 31 | 1.625 | 0.052 | 22 |
| CARDINAL HEALTH - WA | 004-1 | 7 | 21 | 2 | - | 1 | • | • | | | | • | | | | 1.589 | 0.059 | 60 |
| CARDINAL HEALTH - WA | 005-1 | 9 | 18 | 2 | • | 1 | • | • | | | | • | | | 26 20 | 0.661 | 0.033 | 23 |
| CARDINAL HEALTH - WA | 1-900 | 2 | 4 | 7 | ٠ | • | • | 1 | | • | | • | | | 8 | 0.473 | 0.079 | 0 |
| CARDINAL HEALTH - WA | 011-1 | 17 | 49 | 1 | 13 | - | • | - | , | - | | - | | 1 | 93 26 | 15.925 | 0.210 | 0 |
| CARDINAL HEALTH - WI 025-1123-01 | 3-01 | က | 14 | 4 | • | • | - | • | | • | | • | | | 22 19 | 1.926 | 0.101 | |
| CARDINAL HEALTH - WI 087-1312-01 | 2-01 | 1 | o | က | • | 1 | - | • | | | | • | | | 24 13 | 1.648 | 0.127 | 79 |
| CARDINAL HEALTH - WI | 10-01 | • | 4 | • | • | • | , | • | , | • | | • | | 1 | 14 14 | 0.479 | 0.034 | 4 |
| GE HEALTHCARE - ANAHEIM 4810-30 | | 15 | 16 | - | 1 | 1 | • | • | | | | • | | | 32 17 | 0.599 | 0.035 | 35 |
| GE HEALTHCARE - SACRAMENTO 4809-34 | | 30 | က | က | • | • | • | • | | • | | • | | | 36 6 | 0.426 | 0.071 | - |
| GE HEALTHCARE - SAN DIEGO 5796-37 | | 19 | 10 | • | • | • | • | • | | | | • | | | 29 10 | 0.364 | 0.036 | 98 |
| GE HEALTHCARE - SAN JOSE 4811-43 | | 80 | 12 | က | - | - | , | • | , | | | • | , | | 25 17 | 2.024 | 0.119 | o |
| GE HEALTHCARE - VAN NUYS 5143-19 | | 4 | 9 | 1 | 1 | 1 | , | • | , | - | | • | | 1 | 20 6 | 0.150 | 0.025 | 52 |
| IBA MOLECULAR NORTH AMERICA, INC. CA-7131-43 | 1-43 | 9 | 20 | ო | ო | 4 | - | 2 | - | 1 | | • | | • | 40 34 | 12.025 | 0.354 | 4 |
| MALLINCKRODT, INC. 859-01 | | 10 | 7 | ' | • | 1 | , | | , | • | | 1 | , | • | 7 71 | 0.178 | 0.025 | 52 |
| MORAVEK BIOCHEMICALS, INC. 2960-30 | | - | 22 | 2 | • | 1 | , | • | - | 1 | | • | | | 29 28 | 3.784 | 0.135 | 32 |
| WYLE LABORATORIES FL-2953-1 | 1-1 | 27 | 3 | 1 | • | - | , | • | , | - | | • | | - | 30 3 | 0.048 | 0.016 | 9 |
| Total 157 | | 818 | 2,463 | 510 | 221 | 72 | 31 | 14 | 8 | 3 | | 1 | | - 4,141 | 41 3,323 | 347.103 | 0.104 | 4 |
| WELL LOGGING BYPRODUCT AND/OR SNIM SEALED SOURCES ONLY - 03111 | I SEALED SOU | RCES OF | VLY - 031 | 11 | | | 8 | | 2 | | 3 | | 9 | | | | | |
| ISOTOPE PRODUCTS LABS 1509-19 | | 7 | 25 | 10 | 7 | 4 | 9 | 8 | 1 | | | - | | | 68 61 | 26.623 | 0.436 | 9 |
| Total 1 | | 7 | 25 | 10 | 7 | 4 | 9 | 8 | 1 | | | • | | | 68 61 | 26.623 | 0.436 | 9 |
| MEASURING SYSTEMS PORTABLE GAUGES - 03121 | S - 03121 | | | | | | | | | | | | | | | | | |
| CPN INTERNATIONAL, INC. | | 2 | 2 | 5 | 2 | - | | 1 | | • | | • | | - | 11 9 | 1.831 | 0.285 | 2 |
| Total 1 | | 2 | 2 | 9 | 2 | 1 | | 1 | | | | | | | 11 9 | 1.831 | 0.285 | 9 |
| | | | | l | | | | | | | | | | | | | | 1 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2007 (continued)

| | | | | ı | ı | ı | | 8 | | ı | ı | ı | | | | | | 1 |
|--|---------------------|-------------------------|----------------|---------|----------|----------|---------|---------|---|-------|----------|-------|-------|---------------------------------|----------------------|--|---------------------------------|---------------------|
| | | | N | mber of | Individu | als with | Whole B | ody Dos | Number of Individuals with Whole Body Doses in the Ranges (rems)* | Range | s (rems) | * | | | | | | |
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- 3 | 3.00- | 4.00- | 5.00- | 6.00- | Total Number .0 Monitored | Number with Meas. | r Total Collective is. TEDE (person-rem) | e Average Meas. TEDE (rem | age is. (rem) |
| MANUFACTURING AND DISTRIBUTION - OTHER - 03214 | ITION - OTHER - 032 | 14 | | | | | | | | | | | | | | | | |
| HOCHIKI AMERICA CORPORATION | 2090-30 | 16 | • | | • | 1 | • | 1 | | ' | • | • | | - | 16 | | | |
| J. L. SHEPHERD AND ASSOCIATES | CA 1777-19 | 41 | 2 | - | 4 | - | - | - 1 | , | • | • | | , | - | 22 | 8 2.774 | | 0.347 |
| Total | 2 | 30 | 2 | • | 4 | - | - | | | | | | | | 38 | 8 2.774 | | 0.347 |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR REPAC | CESSING AND/OR RE | EPACKAGIN | KAGING - 03234 | | | | | | | | | | | | à | | | |
| ENVIRONMENTAL MANAGEMENT & CONTROLS | 3546-50 | - | , | - | - | - | , | - | , | ' | • | ' | , | | 2 | 4 2.141 | | 0.535 |
| THOMAS GRAY & ASSOCIATES | CA-2105-30 | 2 | ю | • | 1 | • | | - 1 | , | • | • | • | , | Ļ | 8 | 3 0.122 | | 0.041 |
| Total | 2 | 9 | 3 | 1 | - | 7 | • | - | | | ٠ | | | | 13 | 7 2.263 | | 0.323 |
| INDUSTRIAL RADIOGRAPHY – FIXED LOCATION – 03310 | KED LOCATION - 033 | 110 | | | | | | | | | | | | | | | | |
| LAFAYETTE TESTING SERVICES, INC. | 079-1147-01 | ю | 2 | | • | 1 | • | • | | ' | • | • | , | - 1 | 2 | 2 0.107 | | 0.054 |
| METALTEK - WISCONSIN CENTRIFUGAL DIVISION | 133-1181-01 | 2 | 9 | - | က | - | • | | | | • | ' | | | 13 | 11 1.881 | | 0.171 |
| SONGS - RADIOGRAPHY GROUP | CA-5244-30 | 10 | 1 | - 1 | • | - 1 | • | 1 | • | , | ٠ | • | , | - | 10 | | ١, | ' |
| WAUKESHA FOUNDRY, INC WI | 133-1337-01 | 3 | • | • | • | 1 | • | 1 | | • | • | | | • | 3 | | i | |
| Total | 4 | 18 | 8 | 1 | င | 1 | ٠ | 1 | ٠ | ٠ | ٠ | • | | - | 31 | 13 1.988 | | 0.153 |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – 03 | MPORARY JOB SITE | - 03320 | | | | | | | | | | | | | | | | |
| ACUREN | 133-2008-01 | 7 | 12 | 7 | 1 | 0 | 9 | 12 | o | - | - | • | | 1 | 75 (| 68 64.694 | | 0.951 |
| ALPHA-OMEGA SERVICES, INC. | 3925-19 | 9 | 9 | 2 | 7 | 1 | • | 1 | | • | • | • | | - | , 91 | 1.168 | | 0.117 |
| AMERICAN ENGINEERING TESTING, INC. | 073-2012-02 | • | 2 | 2 | - | - | • | က | 2 | τ- | | • | | , | | 12 14.078 | | 1.173 |
| BRAUN INTERTEC - MN | 1082-100-27 | 4 | თ | 2 | 7 | 2 | 2 | 9 | т | - | • | • | • | 7 | 42 | 38 26.562 | | 669.0 |
| CONAM INSPECTION | 03320460000 | 4 | က | 2 | - | 1 | ო | - | • | • | • | • | | | 4 | 10 5.027 | | 0.503 |
| CONAM INSPECTION | 1517-1 | | - | 1 | • | 1 | • | 1 | • | • | 1 | 1 | | | 1 | 1 0.014 | | 0.014 |
| CONAM INSPECTION | L05010 | 22 | 43 | 24 | 23 | 16 | 1 | 16 | 2 | • | | • | | - 16 | 160 13 | 138 66.907 | | 0.485 |
| CONAM INSPECTION | WN-IR011-1 | - | 7 | 2 | 9 | က | 2 | ю | - | 2 | 1 | 1 | | | 30 | 29 20.116 | | 0.694 |
| CONAM INSPECTION - AL | AL-1075 | - | 9 | 4 | 2 | • | ო | 7 | 2 | • | • | • | | | 28 | 17.761 | | 0.658 |
| CONAM INSPECTION - CA | CA-4832-19 | 10 | 7 | o | 2 | 9 | თ | 2 | - | ٠ | , | 1 | | 1 | 52 | 42 23.787 | | 995.0 |
| CONAM INSPECTION - CA | CA-4886-48 | က | 20 | 2 | 9 | ω | 4 | œ | • | • | ٠ | • | | 1 | 54 | 51 23.180 | | 0.455 |
| CONAM INSPECTION - CO | CO-963-01 | - | 4 | က | 4 | 2 | 4 | 13 | 7 | • | • | 1 | | | 36 | 35 31.928 | | 0.912 |
| CONAM INSPECTION - IL | IL-01225-22 | 2 | 77 | 13 | 0 | 10 | က | 4 | | ' | • | | | , | | 19.500 | | 0.325 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2007 (continued)

| | | | Nu | mber of | Individu | ials with | Number of Individuals with Whole Body Doses in the Ranges (rems)* | ody Dos | es in the | Ranges | (rems) | | | | | | | |
|---|---------------------|-------------------------|----------------|---------|----------|-----------|---|---------|-----------|---------|-------------------|-------|-------|------------------------------------|-------|-------------------|--|--------------------------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- 3 | 3.00- 4 | 4.00- 5 5.00 (| 5.00- | 6.00- | Total Number >12.0 Monitored | | Number with Meas. | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| CONAM INSPECTION - KY | KY-201-699-05 | 1 | 8 | 10 | 11 | 9 | 2 | 4 | ٠ | | ٠ | | | | 45 | 44 | 19.756 | 0.449 |
| CONAM INSPECTION - LA | LA-10986-L01 | - | 7 | က | 4 | _ | က | - | | • | | • | , | • | 20 | 19 | 6.413 | 0.338 |
| CONAM INSPECTION - MA | MA-16-5591 | • | 31 | 13 | 7 | 10 | 9 | 9 | က | • | , | • | • | • | 80 | 80 | 33.050 | 0.413 |
| CONAM INSPECTION - NC | NC-090-1058-1 | 1 | ∞ | 9 | 9 | - | 7 | 10 | - | • | • | • | | • | 39 | 39 | 26.868 | 0.689 |
| CONAM INSPECTION - NY | NY-3080-4315 | 2 | က | - | - | - | - | 2 | - | - | | • | | • | 13 | 1 | 10.718 | 0.974 |
| CONAM INSPECTION - SC | SC-730 | • | - | - | 1 | 1 | 2 | 2 | • | • | | • | | • | 9 | 9 | 4.754 | 0.792 |
| CONAM INSPECTION - UT | UT-1800485 | - | ω | 4 | - | က | | က | - | , | | 1 | | • | 18 | 17 | 699.6 | 0.569 |
| CONSTRUCTION MATERIALS TESTING, INC. | 70-6620 | - | 2 | - | - | - | ٠ | • | , | • | | • | | • | 9 | 2 | 1.111 | 0.222 |
| COOPERHEAT-MQS INSPECTION | 388-01 | 10 | 4 | 9 | ß | 7 | ო | œ | , | • | - | • | , | • | 4 | 34 | 25.890 | 0.761 |
| EDGE INSPECTION GROUP, INC. | CA-7214-48 | • | က | က | т | 2 | - | ю | 7 | • | | , | | • | 17 | 17 | 12.488 | 0.735 |
| GREAT LAKES TESTING, INC. | 009-1116-01 | က | - | 9 | 7 | - | 7 | ю | , | • | | • | | • | 18 | 15 | 7.318 | 0.488 |
| INTERNATIONAL INSPECTION, INC. | 5046-19 | 2 | ∞ | က | • | 1 | • | 1 | , | • | | • | | • | 13 | 11 | 0.879 | 0.080 |
| NASSCO | CA-0684-37 | 8 | 9 | | 1 | 1 | 1 | 1 | , | 1 | | • | | • | თ | 9 | 0.086 | 0.014 |
| NDT LABORATORIES, INC. | 1651-43 | • | ო | - | 7 | • | • | 1 | , | • | | • | | • | 9 | 9 | 0.940 | 0.157 |
| NDT SPECIALISTS, INC. | 079-1199-01 | , | က | က | - | - | - | 2 | • | - | | • | | • | 12 | 12 | 7.711 | 0.643 |
| QUALITY INSPECTION SERVICES, INC. | NYS C2514 | • | ß | 4 | ю | • | 4 | 7 | | • | | , | | ř | 23 | 23 | 15.611 | 0.679 |
| SUBSURFACE IMAGING, INC. | 7449-19 | - | Ŋ | 2 | 7 | • | ٠ | • | | • | • | • | | • | 10 | 6 | 1.102 | 0.122 |
| TC INSPECTION, INC. | 5299-07 | 1 | 24 | 12 | Ξ | œ | ო | 1 | - | | | • | | • | 81 | 20 | 32.732 | 0.468 |
| TECH CORR INSPECTION & ENGINEERING | L05972 TX | - | 27 | 21 | 12 | 10 | 15 | 17 | 4 | • | | • | | • | 101 | 100 | 60.733 | 0.607 |
| TEAM INDUSTRIAL SERVICES, INC. | 079-2005-01 | 2 | 7 | 2 | 7 | - | • | 2 | - | , | | • | , | | 17 | 15 | 7.674 | 0.512 |
| TESTING ENGINEERS, INC. | 1898-01 | • | - | - | 1 | - | , | - | , | • | | • | | • | 4 | 4 | 2.132 | 0.533 |
| TWIN PORTS TESTING, INC. | 031-1317-02 | 5 | ო | 2 | 2 | 2 | | - | - | • | | • | | • | 16 | 11 | 5.695 | 0.518 |
| VALLEY INDUSTRIAL X-RAY & INSPECTION | CA-4182-15 | 34 | 28 | 16 | 16 | 7 | Ξ | 18 | က | 2 | | • | | • | 135 | 101 | 64.178 | 0.635 |
| WELDSONIX, INC. | TX-L05718 | ю | 13 | 21 | 31 | 18 | 4 | 10 | - | ' | | • | | • | 111 | 108 | 55.585 | 0.515 |
| WESTERN INDUSTRIAL X-RAY | 4424-48 | • | • | - | 2 | - | - | 2 | , | • | | • | | • | 7 | 7 | 5.633 | 0.805 |
| WESTERN X-RAY CORPORATION | 5324-56 | 8 | 2 | | ო | • | 1 | - | , | | | • | | • | თ | 9 | 2.712 | 0.452 |
| YUBA HEAT TRANSFER | OK-13735-01 | 1 | 2 | 1 | • | 1 | • | 1 | , | 1 | , | • | | • | 4 | 3 | 0.304 | 0.101 |
| Total | 40 | 146 | 345 | 225 | 212 | 145 | 126 | 192 | 44 | 6 | 2 | 1 | | - | 1,446 | 1,300 | 736.464 | 0.567 |
| IRRADIATORS - OTHER - LESS THAN 10000 CURIES - 0351 | AN 10000 CURIES - (| 03511 | | | ľ | | | | | | | | | | ł | Ì | | |
| INDUSTRIAL NUCLEAR CO., INC. | 2229-01 | 9 | • | - | 2 | 1 | • | - | , | ٠ | • | • | • | • | 10 | 4 | 2.357 | 0.589 |
| Total | 1 | 9 | • | 1 | 2 | • | | 1 | | - | • | ٠ | ٠ | • | 10 | 4 | 2.357 | 0.589 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2008

| | | | | Numbe | r of Indiv | iduals wit | th Whole | Body Dos | es in the | Number of Individuals with Whole Body Doses in the Ranges (rems)* | ms)* | | | | | 7042 | |
|--|------------------|-------------|------------------|-------|------------|------------|----------|----------|-----------|---|-------------|-----|-----|--------------|---------------------|---------------|------------------|
| PROGRAM CODE - | | No Meas. | Meas. | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- 4.0 | 4.00- 5.00- | -0- | - 6 | Total Number | Number with Meas | Collective | Average Meas. |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHA | TION - NUCLEAR F | | ARMACIES – 02500 | 00 | 26.0 | e S | 20. | 20.7 | | | | | | | eson | [(berson-rem) | IEDE (rem) |
| CARDINAL HEALTH - AK | 0707RA907-912 | - | 2 | - | • | • | • | • | | 1 | , | • | , | 4 | e - | 0.186 | 0.062 |
| CARDINAL HEALTH - AL | 1068 | က | m | - | • | í | • | 1 | • | • | , | | | - 7 | 4 | 0.261 | 0.065 |
| CARDINAL HEALTH - AL | 1168 | в | 27 | 9 | ю | - | • | 1 | , | 1 | , | | , | - 40 | 37 | 3.248 | 0.088 |
| CARDINAL HEALTH - AR | ARK-642-02500 | 16 | 62 | 2 | 7 | • | ٠ | • | • | 1 | , | | | - 82 | 99 | 2.507 | 0.038 |
| CARDINAL HEALTH - AZ | 01-084 | 4 | _ | - | - | • | ٠ | • | ٠ | - 1 | , | | | - 13 | 00 | 0.669 | 0.074 |
| CARDINAL HEALTH - AZ | 07-123 | 15 | 37 | 14 | 9 | • | ٠ | | ٠ | • | | | , | - 72 | . 57 | 5.560 | 0.098 |
| CARDINAL HEALTH - CA | 2891-37 | - | 17 | 4 | 7 | • | • | 1 | ٠ | 1 | | | , | - 24 | 1 23 | 1.891 | 0.082 |
| CARDINAL HEALTH - CA | 3317-19 | 2 | 16 | • | • | | , | 1 | • | 1 | , | | , | - 31 | 16 | 0.423 | 0.026 |
| CARDINAL HEALTH - CA | 3426-43 | - | ∞ | 2 | • | • | • | 1 | ٠ | 1 | , | | , | - | 10 | 0.370 | 0.037 |
| CARDINAL HEALTH - CA | 3469-1 | | ო | , | 7 | • | • | - | • | • | | | , | | 9 | 2.030 | 0.338 |
| CARDINAL HEALTH - CA | 3469-2 | • | - | - | • | 2 | - | - | • | • | | | , | • | 9 | 4.016 | 0.669 |
| CARDINAL HEALTH - CA | 3673-34 | က | 31 | 4 | - | 1 | • | • | • | 1 | , | | , | × | 36 | 1.646 | 0.046 |
| CARDINAL HEALTH - CA | 3822-19 | 4 | 34 | 12 | Ŋ | - | - | • | • | • | | | , | - 52 | . 53 | 6.529 | 0.123 |
| CARDINAL HEALTH - CA | 3832-01 | 4 | 22 | 9 | • | - | • | • | ' | • | , | | , | 98 - | 32 | 2.195 | 0.069 |
| CARDINAL HEALTH - CA | 4905-10 | 4 | 52 | 4 | 1 | 1 | | 1 | ' | 1 | , | • | ī | - 33 | 29 | 1.165 | 0.040 |
| CARDINAL HEALTH - CA | 4999-30 | 5 | 72 | 7 | - | 1 | ٠ | 1 | ' | • | , | | , | - 34 | 29 | 1.800 | 0.062 |
| CARDINAL HEALTH - CA | 5218-36 | 9 | 7 | 2 | 2 | 7 | 7 | 1 | , | 1 | , | • | , | - 21 | 15 | 3.978 | 0.265 |
| CARDINAL HEALTH - CA | 5905-15 | • | ω | • | ' | 1 | • | 1 | • | 1 | , | | , | | 80 | 0.295 | 0.037 |
| CARDINAL HEALTH - CA | 5910-50 | 2 | 4 | - | • | • | • | • | • | 1 | | | , | | 2 | 0.209 | 0.042 |
| CARDINAL HEALTH - CA | 6321-45 | က | 9 | • | • | 1 | • | 1 | 1 | 1 | , | | , | 1 | 9 | 0.172 | 0.029 |
| CARDINAL HEALTH - CA | 6691-33 | က | 10 | • | • | 1 | • | • | • | 1 | | | , | - | 10 | 0.136 | 0.014 |
| CARDINAL HEALTH - CA | 6924-36 | - | - | - | 7 | - | ٠ | 1 | • | 1 | , | | 1 | • | 5 | 1.537 | 0.307 |
| CARDINAL HEALTH - CA | 6925-19 | 2 | 7 | œ | 2 | - | - | 1 | ' | • | , | | , | - 25 | . 23 | 3.801 | 0.165 |
| CARDINAL HEALTH - CO | 162-06 | 5 | ω | - | 4 | 2 | 4 | 1 | , | | , | | , | - 24 | 19 | 6.229 | 0.328 |
| CARDINAL HEALTH - CO | 392-01 | 9 | 4 | 2 | 2 | 1 | - | 1 | ' | ' | , | | , | - 55 | . 49 | 2.804 | 0.057 |
| CARDINAL HEALTH - CO | 392-03 | 9 | 38 | 2 | 2 | 1 | - | 1 | ' | 1 | , | • | , | - 44 | 43 | 2.688 | 0.063 |
| CARDINAL HEALTH - CT | 00163 | 9 | 59 | ω | • | ' | | • | • | • | , | | 1 | . 4 | 37 | 1.839 | 0.050 |
| CARDINAL HEALTH - CT | 01567 | • | 2 | _ | 1 | 1 | • | .1 | ' | • | , | | , | , | 8 | 0.218 | 0.073 |
| CARDINAL HEALTH - FL | 1264-9 | ო | 4 | 4 | 2 | 1 | | • | • | - | | | | - 26 | 33 | 2.937 | 0.128 |
| CARDINAL HEALTH - FL | 3273-7 | 2 | 4 | - | • | 1 | • | • | • | 1 | | | , | | . 2 | 0.228 | 0.046 |
| CARDINAL HEALTH - FL | 3453-1 | 9 | 23 | 0 | • | 1 | • | 1 | • | 1 | | | 1 | - 38 | 32 | 1.702 | 0.053 |
| CARDINAL HEALTH - FL | 3453-2 | 11 | 16 | 4 | - | r | • | .1 | 1 | - | , | | | - 32 | | 1.451 | 0.069 |
| CARDINAL HEALTH - FL | 3453-3 | 7 | 9 | 2 | 1 | 1 | 2 | 1 | , | ' | , | • | , | - 2 | . 50 | 0.925 | 0.046 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2008 (continued)

| | | | | Numb | er of Indiv | iduals w | th Whole | Body Dos | es in the | Number of Individuals with Whole Body Doses in the Ranges (rems)* | *(sma | ı | ı | | | | | | |
|--|-------------------|-------------------------|-----------------|-------|-------------|---|----------|----------|-----------|---|-----------------------|---|-------|-----------|----------------|------------------------------|------------------------------------|-------------------------------|----------|
| | | į | | | | A CIRCUIT AND A | | inoa i | - | and seafilings | (8) | ŀ | ŀ | _ | | | Total | _ | |
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 3.00 | 3.00- 4. | 4.00- 5.00 6.00 | | 6.00- | Total You | Total Number w | Number with Meas. Dose | Collective TEDE (person-rem) | Average Meas. TEDE (ren | e É |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHA | UTION – NUCLEAR I | | RMACIES - 02500 | 00 | | | | | | | | | | | | | | | Г |
| CARDINAL HEALTH - FL | 3453-5 | 7 | 13 | 4 | 7 | _ | - | 1 | , | • | , | | , | - | 28 | 21 | 3.168 | 0.151 | _ |
| CARDINAL HEALTH - FL | 3453-6 | 80 | 21 | 2 | • | • | ٠ | • | • | • | | • | | -1 | 34 | 26 | 1.136 | 0.044 | 4 |
| CARDINAL HEALTH - FL | 3453-7 | 5 | 19 | 7 | ιΩ | 1 | ٠ | • | , | , | , | • | | • | 36 | 31 | 3.465 | 0.112 | 2 |
| CARDINAL HEALTH - FL | 3453-8 | 10 | 22 | တ | • | - | ٠ | • | • | • | , | | | • | 42 | 32 | 3.023 | 0.094 | 4 |
| CARDINAL HEALTH - FL | 3453-9 | - | 19 | 4 | 7 | • | 1 | 1 | , | • | , | | , | | 56 | 25 | 1.704 | 0.068 | 80 |
| CARDINAL HEALTH - GA | GA-467-1MD | ю | 15 | က | 4 | _ | • | • | • | • | | • | | - | 26 | 23 | 2.863 | 0.124 | 4 |
| CARDINAL HEALTH - GA | GA-467-2MD | 7 | 9 | • | | 1 | • | • | 1 | • | , | | | | 13 | 9 | 0.120 | 0.020 | 0. |
| CARDINAL HEALTH - GA | GA-467-3MD | - | 4 | • | | 1 | • | • | , | | , | | | - | 2 | 4 | 0.019 | 0.005 | 2 |
| CARDINAL HEALTH - GA | GA-823-2MD | 2 | თ | 2 | - | 1 | • | • | 1 | 1 | 1 | | | - | 4 | 12 | 0.733 | 0.061 | - |
| CARDINAL HEALTH - IA | 0043-1-77-NP | 6 | 22 | • | • | ' | • | 1 | 1 | • | 1 | | , | - | 31 | 22 | 0.407 | 0.019 | o |
| CARDINAL HEALTH - IL | IL-01721-01 | 1 | 49 | 5 | 4 | 1 | • | | 1 | • | • | | | - | 69 | 28 | 3.651 | 0.063 | n |
| CARDINAL HEALTH - IN | R0358-45 | 80 | 31 | 2 | • | 1 | ٠ | • | 1 | 1 | 1 | | | 1 | 4 | 36 | 1.400 | 0.039 | <u>ე</u> |
| CARDINAL HEALTH - KS | 20-C495-01 | Ξ | 15 | 2 | - | - | ٠ | • | • | • | , | | | • | 30 | 19 | 1.551 | 0.082 | Ö |
| CARDINAL HEALTH - KY | 202-204-32 | 80 | 35 | က | • | 1 | 1 | 1 | 1 | • | , | | 1 | 1 | 46 | 38 | 1.040 | 0.027 | 7: |
| CARDINAL HEALTH - KY | 202-206-32 | - | 30 | • | - | - | • | • | , | • | , | | , | • | 33 | 32 | 2.059 | 0.064 | 4 |
| CARDINAL HEALTH - KY | 202-333-32 | - | т | • | | ' | • | • | , | • | , | | , | 1 | 4 | က | 0.041 | 0.014 | 4 |
| CARDINAL HEALTH - LA | LA-10217-L01 | 9 | - | , | • | 1 | • | • | • | • | , | • | | 1 | 7 | - | 0.034 | 0.034 | 4 |
| CARDINAL HEALTH - LA | LA-10336-L01 | 4 | 9 | • | • | , | • | 1 | • | • | , | | , | 1 | 10 | 9 | 0.176 | 0.029 | <u>ე</u> |
| CARDINAL HEALTH - LA | LA-3385-L01 | 7 | 13 | 2 | • | 1 | | • | • | • | , | • | | 1 | 22 | 15 | 0.608 | 0.041 | - |
| CARDINAL HEALTH - LA | LA-5115-L01 | - | 12 | 10 | 7 | 1 | • | 1 | • | • | | • | , | 1 | 25 | 24 | 2.740 | 0.114 | 4 |
| CARDINAL HEALTH - LA | LA-5119-L01 | 4 | ω | • | • | 1 | • | • | • | 1 | 1 | • | | 1 | 12 | 80 | 0.139 | 0.017 | 7 |
| CARDINAL HEALTH - LA | LA-5394-L01 | 3 | 15 | 4 | • | _ | 1 | 1 | , | • | , | | , | | 23 | 20 | 1.574 | 0.079 | <u>б</u> |
| CARDINAL HEALTH - LA | LA-7096-L01 | 4 | 9 | • | • | • | • | • | , | • | , | | , | | 10 | 9 | 0.118 | 0.020 | 0. |
| CARDINAL HEALTH - MA | 4008 | 1 | _ | • | - | - | ٠ | က | - | • | | | | 1 | 7 | 7 | 8.647 | 1.235 | ıçı |
| CARDINAL HEALTH - MA | 42-0146 | 80 | 29 | = | 12 | 4 | 4 | - | 3 | , | , | | , | 1 | 69 | 61 | 13.811 | 0.226 | 9. |
| CARDINAL HEALTH - MD | MD-05-148-01 | 4 | 13 | • | 7 | , | , | 1 | • | • | , | | , | 1 | 19 | 15 | 1.048 | 0.070 | 0 |
| CARDINAL HEALTH - MD | MD-33-177-01 | 2 | _ | က | - | - | | • | 1 | • | 1 | | | 1 | ω | 9 | 1.546 | 0.258 | <u></u> |
| CARDINAL HEALTH - MD | MD-33-198-01 | 16 | 19 | = | ιΩ | ю | | က | • | • | | | | 1 | 22 | 4 | 9.591 | 0.234 | 4 |
| CARDINAL HEALTH - MI | 1549-4 | 10 | 19 | 4 | က | - | | • | • | • | , | | | 1 | 37 | 27 | 2.578 | 0.095 | Ω |
| CARDINAL HEALTH - MN | 1037-205-89 | 24 | 4 | က | 9 | • | • | 1 | • | • | | | , | 1 | 73 | 49 | 2.778 | 0.057 | |
| CARDINAL HEALTH - MN | 1045-100-89 | • | • | - | 7 | - | ო | 1 | • | • | , | • | | 1 | 7 | 7 | 3.931 | 0.562 | 2 |
| CARDINAL HEALTH - MO | 2840 | 17 | 37 | 5 | 7 | ' | , | 1 | • | • | , | • | , | 1 | 61 | 4 | 2.138 | 0.049 | <u>ත</u> |
| CARDINAL HEALTH - MO | 6141 | 1 | 1 | - | 2 | 1 | ٠ | 1 | , | • | 1 | | | | 4 | 4 | 0.928 | 0.232 | 2 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2008 (continued)

| | | | | Numbe | r of Indiv | iduals wit | th Whole | Body Do | ses in the | Number of Individuals with Whole Body Doses in the Ranges (rems)* | ems)* | | | | | | Total | |
|--|-------------------|-------------------------|-----------------|-------|------------|------------|----------|---------|------------|---|------------------|-----------------------|-------|--------------|----|-------------------|--------------------|-------------------------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 3.00 | 3.00- 4 | 4.00- 5.00 6. | 5.00- 6.0 6.00 12. | 6.00- | Total Number | | Number with Meas. | Collective TEDE | Average Meas. EDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHA | JTION - NUCLEAR F | | RMACIES - 02500 | ٥ | | i | İ | | i | | | | l | • | | | | |
| CARDINAL HEALTH - MS | MS-493-01 | 2 | 10 | က | က | က | - | 1 | 1 | 1 | , | - | | | 22 | 20 | 4.643 | 0.232 |
| CARDINAL HEALTH - MS | MS-781-01 | 1 | 7 | • | - | , | • | • | • | 1 | , | | | • | ω | œ | 0.685 | 0.086 |
| CARDINAL HEALTH - MS | MS-924-01 | • | 7 | - | 1 | • | • | • | • | 1 | , | | | | œ | 80 | 0.298 | 0.037 |
| CARDINAL HEALTH - MS | MS-974-01 | • | • | - | • | - | • | - | • | 1 | , | | | • | က | 3 | 1.926 | 0.642 |
| CARDINAL HEALTH - NC | 011-0794-7 | 2 | თ | - | - | - | • | • | • | 1 | | | | | 4 | 12 | 1.460 | 0.122 |
| CARDINAL HEALTH - NC | 025-0794-10 | 5 | თ | 2 | - | • | • | • | • | 1 | | | | • | 17 | 12 | 0.780 | 0.065 |
| CARDINAL HEALTH - NC | 026-0794-8 | • | 1 | 2 | 1 | ' | • | ' | • | 1 | • | • | | , | 13 | 13 | 0.673 | 0.052 |
| CARDINAL HEALTH - NC | 041-0794-5 | 4 | 16 | 2 | • | • | • | • | ٠ | 1 | • | • | | | 22 | 18 | 0.712 | 0.040 |
| CARDINAL HEALTH - NC | 060-0794-1 | 13 | 17 | 7 | - | ю | - | - | ٠ | 1 | , | | | • | 43 | 30 | 6.141 | 0.205 |
| CARDINAL HEALTH - NE | 01-65-01 | O | 30 | 2 | • | ı | ٠ | 1 | ' | 1 | , | • | | • | 4 | 35 | 1.413 | 0.040 |
| CARDINAL HEALTH - NM | RP396-02 | 7 | σ | • | • | 1 | • | • | • | 1 | , | | | | 16 | 6 | 0.234 | 0.026 |
| CARDINAL HEALTH - NV | 03-11-0150-01 | S | 13 | 7 | 1 | T | • | 1 | • | 1 | | • | | • | 25 | 20 | 1.263 | 0.063 |
| CARDINAL HEALTH - NV | 092-0794-6 | 7 | 25 | 9 | Ŋ | • | • | • | • | 1 | , | | | | 43 | 36 | 3.707 | 0.103 |
| CARDINAL HEALTH - NY | C2328 | o | 9 | က | 2 | - | • | 1 | 1 | 1 | | 1 | | | 21 | 12 | 1.817 | 0.151 |
| CARDINAL HEALTH - NY | C2364 | 22 | 15 | 8 | • | • | • | • | ٠ | 1 | , | | | • | 40 | 18 | 0.882 | 0.049 |
| CARDINAL HEALTH - NY | C2449 | 2 | 12 | 4 | - | • | • | • | ٠ | 1 | , | | | • | 19 | 17 | 1.347 | 0.079 |
| CARDINAL HEALTH - NY | C2588 | 7 | 15 | • | ï | • | • | • | ٠ | 1 | , | • | | • | 22 | 15 | 0.301 | 0.020 |
| CARDINAL HEALTH - NY | C2593 | 4 | 23 | - | • | r | | 1 | ' | , | ì | • | | • | 28 | 24 | 0.648 | 0.027 |
| CARDINAL HEALTH - NY | C2613 | 2 | 17 | - | , | • | • | • | • | 1 | , | • | | | 20 | 18 | 0.684 | 0.038 |
| CARDINAL HEALTH - NY | C3046 | 0 | 59 | က | 1 | • | • | • | ٠ | 1 | , | | | • | 4 | 32 | 1.060 | 0.033 |
| CARDINAL HEALTH - NY | C3153 | • | 4 | - | - | - | - | • | • | 1 | , | | | • | ω | 00 | 2.031 | 0.254 |
| CARDINAL HEALTH - OH | 02500180000 | 2 | 56 | က | 1 | • | • | • | ٠ | 1 | , | | | | 31 | 59 | 0.845 | 0.029 |
| CARDINAL HEALTH - OH | 02500250000 | 1 | 28 | 7 | 9 | - | - | 1 | , | 1 | , | 1 | | | 28 | 47 | 5.420 | 0.115 |
| CARDINAL HEALTH - OH | 02500310000 | - | 2 | က | 9 | 2 | • | - | ٠ | 1 | , | | , | | 15 | 4 | 5.488 | 0.392 |
| CARDINAL HEALTH - OH | 02500490001 | 24 | 4 | 2 | - | 1 | • | • | • | 1 | , | | | • | 4 | 20 | 1.552 | 0.078 |
| CARDINAL HEALTH - OH | 02500580000 | 9 | 21 | 4 | - | ı | • | 1 | 1 | 1 | , | 1 | | • | 32 | 56 | 1.163 | 0.045 |
| CARDINAL HEALTH - OH | 02500790000 | က | 10 | 1 | • | 1 | • | • | ٠ | , | , | | | | 13 | 10 | 0.167 | 0.017 |
| CARDINAL HEALTH - OH | 03214250004 | 1 | • | • | 7 | 2 | • | 1 | , | 1 | , | • | | • | 4 | 4 | 1.903 | 0.476 |
| CARDINAL HEALTH - OH | 03214310000 | • | • | - | - | - | - | _ | • | , | , | | | • | 2 | 2 | 3.570 | 0.714 |
| CARDINAL HEALTH - OH | 4853-19 | 7 | 15 | 2 | - | ' | • | _ | | 1 | , | | | , | 56 | 19 | 2.473 | 0.130 |
| CARDINAL HEALTH - OK | OK-19583-02MD | 4 | 22 | 8 | - | • | • | • | | 1 | | | | | 30 | 26 | 1.138 | 0.044 |
| CARDINAL HEALTH - OK | OK-23359-02MD | 7 | 15 | 1 | • | 1 | • | • | • | 1 | , | | | • | 22 | 15 | 0.250 | 0.017 |
| CARDINAL HEALTH - OR | ORE-90509 | - | 11 | 2 | က | 1 | ٠ | 1 | ٠ | 1 | | | | | 17 | 16 | 1.779 | 0.111 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2008 (continued)

| | | | | Numb | Number of Individuals with Whole Body Doses in the Ranges (rems)* | iduals w | ith Whole | Body Dos | ses in the | Ranges (| rems)* | | | | | Total | | |
|--|--------------------------------|-------------|-------------------|-------|---|----------|-----------|----------|------------|----------|-------------|---------|---------|---------------|---------------------------|----------|-----------|------------------|
| PROGRAM CODE - | | No Meas. | Meas. | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- | 4.00- 5.00- | 0- 000- | | _ | Number nber with Meas. | <u>წ</u> | | Average Meas. |
| LICENSEE NAME LICENSE# APPOSITE CONTO OF TH | LICENSE# BUTION - NUCLEAR I | Exposure | <0.10 ES - 025 | 0.25 | 0.50 | 0.75 | 1.00 | | | | | | 0 >12.0 | 0 Monitored | ed Dose | (person | -rem) TED | TEDE (rem) |
| CARDINAL HEALTH - OR | ORE-90703 | 9 | 16 | 2 | 7 | • | • | • | • | 1 | , | | , | | 26 | 20 1 | 1.558 | 0.078 |
| CARDINAL HEALTH - OR | ORE-90914 | 1 | 18 | 9 | 4 | 2 | - | • | • | ' | , | | | | 42 | 31 5 | 5.039 | 0.163 |
| CARDINAL HEALTH - PA | 10239-02-002 | 2 | 16 | 4 | က | 4 | • | - | • | • | , | 1 | , | | 30 | 28 5 | 5.946 | 0.212 |
| CARDINAL HEALTH - PA | AC50-58988 | | 2 | က | | ' | • | 1 | • | 1 | , | 1 | , | | 2 | 5 | 0.489 | 0.098 |
| CARDINAL HEALTH - PA | PA-0384 | 9 | 48 | 1 | - | က | • | 1 | • | • | • | 1 | , | | 69 | 63 4 | 916 | 0.078 |
| CARDINAL HEALTH - PA | PA-0385 | 4 | 43 | 6 | 2 | 5 | • | • | • | ' | | 1 | | | 99 | 62 7 | 7.046 | 0.114 |
| CARDINAL HEALTH - PA | PA-0415 | ю | 25 | 6 | • | , | ٠ | • | • | ' | , | | | | 31 | 28 1 | .239 | 0.044 |
| CARDINAL HEALTH - PA | PA-0460 | ю | 12 | က | • | • | • | • | ٠ | • | , | | | | 18 | 15 0 | 0.591 | 0.039 |
| CARDINAL HEALTH - PA | PA-0643 | 4 | 4 | 1 | - | | • | 1 | • | • | , | 1 | | , | 19 | 15 0 | 0.802 | 0.053 |
| CARDINAL HEALTH - PA | PA-0680 | 9 | 21 | 4 | 1 | • | • | • | • | • | • | - | 1 | | 31 | 25 1 | 1.046 | 0.042 |
| CARDINAL HEALTH - RI | 3B-114-01 | ∞ | 34 | 2 | 1 | • | • | • | • | 1 | | | | | 4 | 36 1 | 1.112 | 0.031 |
| CARDINAL HEALTH - SC | 448 | 4 | 19 | က | - | | • | 1 | • | • | , | 1 | 1 | | 27 | 23 1 | 1.566 | 0.068 |
| CARDINAL HEALTH - SD | 47111 | | 13 | 2 | | • | • | 1 | • | • | • | 1 | , | | 15 | 15 1 | 1.065 | 0.071 |
| CARDINAL HEALTH - TN | R-19199-B15 | თ | 20 | 2 | 1 | 1 | 1 | 1 | • | 1 | 1 | 1 | , | | 31 | 22 0 | 0.784 | 0.036 |
| CARDINAL HEALTH - TN | R-33111-114 | - | 21 | - | 1 | • | , | • | ٠ | • | , | - | , | | 23 | 22 0 | 0.414 | 0.019 |
| CARDINAL HEALTH - TN | R47080-L14 | 12 | 17 | 5 | 1 | • | • | • | • | • | • | 1 | , | | 34 | 22 1 | 1.079 | 0.049 |
| CARDINAL HEALTH - TN | R-57025-C15 | 4 | က | - | 1 | • | , | • | • | • | , | • | , | | œ | 4 | 0.236 | 0.059 |
| CARDINAL HEALTH - TN | R-71029-B11 | 2 | 9 | • | • | • | ' | • | ٠ | • | , | - | , | | 00 | 9 | 0.122 | 0.020 |
| CARDINAL HEALTH - TN | R-79174-D17 | က | 12 | 2 | 7 | • | ' | • | • | • | , | - | , | | 22 | 19 2 | 2.094 | 0.110 |
| CARDINAL HEALTH - TX | L0-1911 | 41 | 39 | 12 | 7 | - | 1 | 1 | • | , | , | 1 | 1 | | 73 | 59 5 | 5.536 | 0.094 |
| CARDINAL HEALTH - TX | L0-1999 | - | 9 | • | ' | 1 | 1 | • | , | 1 | 1 | ı | , | | 7 | 9 | 0.095 | 0.016 |
| CARDINAL HEALTH - TX | L0-2033 | 2 | 34 | 10 | က | - | - | 1 | ٠ | • | 1 | 1 | 1 | | 51 | 49 | 4.757 | 0.097 |
| CARDINAL HEALTH - TX | L0-2048 | 5 | 29 | 4 | ю | - | • | • | • | • | • | 1 | , | | 42 | 37 3 | 3.340 | 0.000 |
| CARDINAL HEALTH - TX | L0-2117 | 2 | 20 | - | - | | • | 1 | • | - | ı | r | | - | 24 | 22 0 | 0.715 | 0.033 |
| CARDINAL HEALTH - TX | L0-2737 | 3 | က | • | 1 | • | • | 1 | • | • | • | 1 | , | | 9 | 3 | 0.063 | 0.021 |
| CARDINAL HEALTH - TX | L0-3398 | 4 | 2 | - | 1 | • | 1 | • | • | • | • | - | | | 10 | 9 | 0.230 | 0.038 |
| CARDINAL HEALTH - TX | L0-4043 | - | 2 | - | 1 | • | • | 1 | • | 1 | • | 1 | 1 | | 7 | 9 | 0.179 | 0:030 |
| CARDINAL HEALTH - TX | L0-4573 | 22 | 59 | 9 | 4 | 1 | , | • | • | • | ì | 1 | , | | 61 | 39 3 | 3.120 | 0.080 |
| CARDINAL HEALTH - TX | L0-4781 | 10 | 15 | - | , | • | ١ | 1 | • | • | , | 7 | | | 26 | 16 0 | 0.387 | 0.024 |
| CARDINAL HEALTH - TX | L0-4785 | 5 | 4 | - | ï | • | 1 | 1 | • | 1 | | 1 | , | , | 20 | 15 0 | 0.398 | 0.027 |
| CARDINAL HEALTH - TX | L0-5461 | • | 7 | 1 | 1 | ' | • | 1 | ٠ | • | | | , | | 7 | 7 0 | 0.192 | 0.027 |
| CARDINAL HEALTH - TX | L0-5536 | • | ' | - | 7 | • | 1 | 1 | • | 1 | , | 1 | , | | က | 3 | 0.804 | 0.268 |
| CARDINAL HEALTH - TX | L0-5610 | - | • | • | 2 | - | • | - | • | 1 | | 1 | | | 2 | 4 | 2.350 | 0.588 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2008 (continued)

| | | | | Number | of Individ | duals with | Whole B | Number of Individuals with Whole Body Doses in the Ranges (rems)* | in the Ra | nges (rem | *(\$ | | | | | Total | |
|---|------------|-------------------------|---------------------------|--------|------------|------------|---------|---|-------------------------|--------------------|-------|-------|-------|---------------------------|---------------------------------|-----------------------------------|--------------------------------|
| PROGRAM CODE - LICENSEE NAME | = # | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- 0 | 1.00 | 1.00- 2.00- 2.00 3.00 | .0- 3.00- 30 4.00 |)- 4.00- 0 5.00 | 5.00- | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose (I | Collective TEDE person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARMACIES - 02500 | UCLEAR PH | ARMACIE | S - 0250 | 0 | | | | | | | | | | | | | |
| CARDINAL HEALTH - UNITED STATES R-79272-111 | 2-111 | 1 | 2 | 2 | - | ı | | 1 | , | 1 | ' | • | ' | 5 | 2 | 0.718 | 0.144 |
| CARDINAL HEALTH - US 065-0794-11 | 11-11 | • | 7 | က | • | - | | • | , | | | • | | 10 | 10 | 0.689 | 0.069 |
| CARDINAL HEALTH - US CH-US-001 | 001 | 22 | 33 | თ | တ | က | 7 | - | | 1 | , | • | • | 79 | 24 | 10.172 | 0.178 |
| CARDINAL HEALTH - UT | 0225 | 4 | 20 | က | • | • | | , | , | | | • | • | 27 | 23 | 1.287 | 0.056 |
| CARDINAL HEALTH - VA | _ | 13 | 4 | တ | - | • | | 1 | | 1 | , | ' | • | 64 | 51 | 2.515 | 0.049 |
| CARDINAL HEALTH - WA | 003-1 | 2 | 27 | 2 | 7 | 1 | | 1 | , | | | • | • | 36 | 8 | 1.983 | 0.058 |
| CARDINAL HEALTH - WA WN-NP004-1 | 1-400 | - | 19 | 4 | - | • | | • | | • | | 1 | • | 25 | 24 | 1.458 | 0.061 |
| CARDINAL HEALTH - WA | 005-1 | 5 | 15 | - | • | 1 | | • | , | 1 | | • | • | 21 | 16 | 0.551 | 0.034 |
| CARDINAL HEALTH - WA | 006-1 | | 4 | _ | - | • | • | • | | | , | 1 | | 9 | 9 | 0.528 | 0.088 |
| CARDINAL HEALTH - WA WN-NP011-1 | 011-1 | 64 | 24 | 0 | 15 | 2 | ٠ | - | | | | • | ' | 100 | 51 | 10.119 | 0.198 |
| CARDINAL HEALTH - WI 025-1123-01 | 3-01 | 2 | 13 | 4 | - | • | | | | | | • | • | 20 | 18 | 1.333 | 0.074 |
| CARDINAL HEALTH - WI 087-1312-01 | 2-01 | œ | 17 | 2 | • | 1 | | • | , | | | • | • | 30 | 22 | 0.978 | 0.044 |
| CARDINAL HEALTH - WI | 10-90 | 9 | 10 | - | • | г | | 1 | , | 1 | ' | 1 | • | 41 | 7 | 0.381 | 0.035 |
| GE HEALTHCARE - ANAHEIM 4810-30 | | 20 | 10 | - | ı | ï | | • | , | | , | • | • | 31 | 1 | 0.514 | 0.047 |
| GE HEALTHCARE - SACRAMENTO 4809-34 | | 21 | ω | • | ٠ | ' | , | • | , | , | , | 2 | , | 29 | ω | 0.415 | 0.052 |
| GE HEALTHCARE - SAN DIEGO 5796-37 | | 17 | 9 | • | • | 1 | | | | , | , | , | ' | 23 | 9 | 0.200 | 0.033 |
| GE HEALTHCARE - SAN JOSE 4811-43 | _ | 00 | 9 | 4 | က | • | | • | , | | | • | • | 21 | 13 | 2.006 | 0.154 |
| GE HEALTHCARE - VAN NUYS 5143-19 | | 9 | 17 | • | • | • | | • | | | | 1 | • | 23 | 17 | 0.563 | 0.033 |
| IBA MOLECULAR NORTH AMERICA, INC. CA-7131-43 | 1-43 | o | 77 | က | 7 | 4 | | ဗ | _ | - | | • | | 4 | 32 | 14.567 | 0.416 |
| MALLINCKRODT, INC. 859-01 | | o | 4 | - | • | • | | • | | | , | 1 | • | 14 | S | 0.277 | 0.055 |
| MORAVEK BIOCHEMICALS, INC. 2960-30 | | 3 | 28 | 9 | က | 1 | , | 1 | - | | ' | | • | 4 | 38 | 4.800 | 0.126 |
| WYLE LABORATORIES FL-2953-1 | 3-1 | 20 | 6 | 1 | | • | | • | | - | | • | • | 29 | 6 | 0.203 | 0.023 |
| Total 154 | | 893 | 2,451 | 477 | 219 | 71 | 28 | 21 | 3 | 1 | - | | • | 4,164 | 3,271 | 318.430 | 0.097 |
| WELL LOGGING BYPRODUCT AND/OR SNM SEALED SO | M SEALED S | | URCES ONLY - 03111 | 3111 | | | | | | | | | | | | | |
| ISOTOPE PRODUCTS LABS 1509-19 | | 5 | 20 | 13 | 7 | 9 | 4 | 14 | 1 | - | | - | - | 70 | 99 | 34.384 | 0.529 |
| Total 1 | | 9 | 20 | 13 | 7 | 9 | 4 | 14 | 1 | - | - | | | 70 | 99 | 34.384 | 0.529 |
| MEASURING SYSTEMS PORTABLE GAUGES - 03121 | ES - 03121 | | | | | | | | | | | | | | | | |
| CPN INTERNATIONAL, INC. 1100-07 | , | 1 | 9 | 4 | 2 | 1 | | 1 | | 1 | | • | • | 12 | 12 | 1.595 | 0.133 |
| Total 1 | | • | 9 | 4 | 2 | • | • | | | 1 | | • | 1 | 12 | 12 | 1.595 | 0.133 |
| | | | | | | | | | | | | | | | | | |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2008 (continued)

| | | | | Numbe | of Indivie | duals witl | n Whole B | Number of Individuals with Whole Body Doses in the Ranges (rems)* | s in the F | anges (re | ms)* | | | | | | Total | |
|--|-------------------|-------------------------|----------------|-------|------------|------------|-----------|---|-----------------|--------------------------|------|--------------------|-------|-------|---------------------------|------------------------------|------------------------------------|-------------------------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- 2 | 2.00- 3.00 4 | 3.00- 4.00- 4.00 5.00 | | 5.00- 6 6.00 11 | 6.00- | To To | Total Number Monitored | Number with Meas. Dose | Collective TEDE (person-rem) | Average Meas. TEDE (rem |
| MANUFACTURING AND DISTRIBUTION - OTHER - 03214 | 1ON - OTHER - 03; | 214 | | | | | | | | | 3 | | | | | | | |
| HOCHIKI AMERICA CORPORATION | 2090-30 | 20 | • | • | • | 1 | , | | , | • | | • | , | • | 20 | - | | |
| J. L. SHEPHERD AND ASSOCIATES | CA 1777-19 | 15 | 9 | 1 | - | 1 | | • | | • | | | , | - | 23 | 8 | 0.770 | 960'0 |
| Total | 2 | 35 | 9 | 1 | - | ٠ | ٠ | | • | | | | | | 43 | 8 | 0.770 | 960'0 |
| OTHER SERVICES - 03225 | | | | | | | | | | | | | | | | | | |
| HYSPAN PRECISION PRODUCTS, INC. | 7010-37 | ٠ | က | • | | • | | 1 | | | , | | | , | 3 | 3 | _ | • |
| Total | 1 | | က | | ٠ | | | | | | | | | | 3 | (,) | 3 | |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR REPACKAGING - 03234 | ESSING AND/OR H | REPACKAG | SING - 03 | 34 | | | | | | | | | | | | | | |
| ENVIRONMENTAL MANAGEMENT & CONTROLS | 3546-50 | 1 | | 2 | 7 | - | , | 1 | | • | | , | | | 5 | 3 | 1.717 | 0.343 |
| Total | 1 | • | | 2 | 2 | 1 | | | | | | | | | 2 | • | 5 1.717 | 0.343 |
| INDUSTRIAL RADIOGRAPHY – FIXED LOCATION – 0331 | ED LOCATION - 03 | 310 | | | | | | | | | | | | | | | | |
| LAFAYETTE TESTING SERVICES, INC. | 079-1147-01 | - | 80 | - | ٠ | • | | I. | | • | , | • | | | 10 | 6 | 0.498 | 0.055 |
| METALTEK - WISCONSIN CENTRIFUGAL DIVISION | 133-1181-01 | 4 | - | 7 | 7 | 1 | , | | , | • | | • | , | | 6 | 5 | 1.372 | 0.274 |
| SONGS - RADIOGRAPHY GROUP | CA-5244-30 | = | • | • | • | • | | • | | • | , | • | | Ļ | 11 | ' | ľ | |
| WAUKESHA FOUNDRY, INC WI | 133-1337-01 | 4 | • | 1 | • | 1 | , | 1 | , | • | | | • | | 4 | | • | |
| Total | 4 | 20 | 6 | 3 | 2 | • | ٠ | - | ٠ | • | | | | • | 34 | 14 | 1.870 | 0.134 |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – 03320 | IPORARY JOB SIT | E-03320 | 8 | | | | | 8 | | | | | | | | | | |
| ACUREN | 133-2008-01 | 1 | 18 | 9 | 19 | 9 | თ | 19 | 4 | | , | | | | 8 | 81 | 55.109 | 0.680 |
| ADVEX CORPORATION | 650-254-1 | 2 | S | - | - | - | , | , | , | , | , | | , | | 10 | 00 | 1.337 | 0.167 |
| ALARON CORPORATION | PA-0678 | 13 | 9 | 18 | 2 | - | | 9 | 4 | • | , | • | , | • | 108 | 92 | 23.507 | 0.247 |
| ALPHA-OMEGA SERVICES, INC. | 3925-19 | က | 16 | 2 | - | | , | | , | • | , | | , | • | 22 | 19 | 0.769 | 0.040 |
| AMERICAN ENGINEERING TESTING, INC. | 073-2012-02 | - | - | - | • | - | - | ო | - | - | , | • | , | • | 10 | 0 | 12.518 | 1.391 |
| BRAUN INTERTEC - MN | 1082-100-27 | 4 | 7 | က | 9 | က | Ŋ | ю | 2 | | , | • | , | • | 33 | 29 | 18.129 | 0.625 |
| CONAM INSPECTION - UTAH | UT-1800485 | | - | 1 | • | ï | 1 | 1 | , | - | , | 1 | , | | - | - | 0.010 | 0.010 |
| CONSTRUCTION MATERIALS TESTING, INC. | 20-6620 | 2 | က | - | 7 | - | | 1 | | , | | 1 | | | 6 | 7 | 1.962 | 0.280 |
| COOPERHEAT-MQS INSPECTION | 388-01 | 1 | თ | 9 | œ | ო | 4 | 7 | _ | • | , | | | | 49 | 38 | 21.206 | 0.558 |
| EDGE INSPECTION GROUP, INC. | CA-7214-48 | • | 9 | က | ٠ | 4 | 7 | 2 | - | • | | | , | 1 | 21 | 21 | 15.532 | 0.740 |
| GREAT LAKES TESTING, INC. | 009-1116-01 | 2 | 9 | 2 | 4 | 4 | က | ٠ | | • | | | | | 21 | 19 | 7.199 | 0.379 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2008 (continued)

| | | | | Numbe | r of Indivi | duals wit | Whole E | ody Dose | Number of Individuals with Whole Body Doses in the Ranges (rems)* | nges (rer | ns)* | | | | | Total | |
|--|------------------|-------------------------|----------------|-------|-------------|-----------|---------|----------|---|-----------|-------------------------------|----------|-----|---------------------------|--------------------------|---------|------------------|
| PROGRAM CODE - | #BWNEO | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- 2 | 3.00- 3.00- | 0- 4.00- | 0- 0- 0- 0- 6.00- | 0- 6.00- | 100 | Total Number Monitored | Number ber with Meas. | Ö Ü | Average Meas. |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – | IIPORARY JOB SIT | E - 03320 | | | | | | | | | | | | | | | ₹ . |
| INTERNATIONAL INSPECTION, INC. | 5046-19 | 8 | 9 | 4 | • | • | , | • | | | , | • | _ | | 11 11 | 9.323 | 3 0.848 |
| MIDWEST INDUSTRIAL X-RAY, INC. | ND-33-27427 | • | - | - | - | 2 | 7 | œ | - | | _ | | | | 17 17 | 21.759 | 9 1.280 |
| NDT LABORATORIES, INC. | 1651-43 | • | က | - | - | 1 | | 1 | | | , | • | | | 5 5 | 0.523 | 3 0.105 |
| NDT SPECIALISTS, INC. | 079-1199-01 | • | 2 | 4 | • | 1 | 7 | 2 | , | - | | -1 | | | 11 | 8.304 | 4 0.755 |
| SUBSURFACE IMAGING, INC. | 7449-19 | 2 | S | 10 | • | 1 | | , | | | | - | | | 15 | 2.071 | 0.138 |
| TC INSPECTION, INC. | 5299-07 | 30 | 4 | 20 | 12 | 7 | ω | 9 | - | | | 1 | | | 89 86 | 31.067 | 7 0.457 |
| TEAM INDUSTRIAL SERVICES, INC. | 079-2005-01 | 2 | 7 | 2 | 7 | - | - | - | - | | | 1 | | | 21 19 | 6.999 | 9 0.368 |
| TECH CORR INSPECTION & ENGINEERING | TX-L05972 | _ | | 1 | • | 1 | | 1 | | - 1 | | 1 | | | _ | | |
| TESTING ENGINEERS, INC. | 1898-01 | • | 2 | - | - | - | | 1 | | | | -1 | | | 5 | 1.186 | 5 0.237 |
| THREE RIVERS GAMMA SERVICES | PA-1165 | • | • | 1 | • | • | 2 | 1 | | | | -1 | | | 2 | 1.962 | 2 0.981 |
| TWIN PORTS TESTING, INC. | 031-1317-02 | 9 | 2 | 2 | က | - | - | - | , | | | -1 | | | 10 10 | 4.979 | 9 0.498 |
| VALLEY INDUSTRIAL X-RAY & INSPECTION | CA-4182-15 | O | 40 | 4 | 15 | 15 | 16 | 29 | 7 | - | | 1 | | , | 146 137 | 91.811 | 0.670 |
| WELDSONIX, INC. | L05718 | 7 | 15 | 23 | 71 | 17 | 7 | 2 | - | - | , | -1 | | | 96 26 | 41.157 | 7 0.457 |
| WESTERN INDUSTRIAL X-RAY | 4424-48 | • | • | 2 | 2 | 1 | - | ю | , | | | 1 | | | 8 | 5.138 | 3 0.642 |
| WESTERN X-RAY CORPORATION | 5324-56 | 4 | - | - | - | - | - | , | , | | , | -1 | | | 9 | 2.168 | 3 0.434 |
| YUBA HEAT TRANSFER | OK-13735-01 | • | - | 3 | ٠ | 1 | | 1 | | • | | -1 | | | 4 4 | 0.347 | 7 0.087 |
| Total | 27 | 102 | 239 | 131 | 102 | 69 | 99 | 86 | 24 | 4 | 1 | • | 1 | | 836 734 | 386.072 | 2 0.526 |
| IRRADIATORS - OTHER - LESS THAN 10000 CURIES - 03511 | AN 10000 CURIES | . 03511 | | | | | | | | | | | | 8. | | | |
| INDUSTRIAL NUCLEAR CO., INC. | 2229-01 | 9 | • | 1 | - | 1 | | 1 | | | | | | | 10 4 | 2.575 | 5 0.644 |
| Total | 1 | 9 | • | 1 | 1 | 1 | ٠ | 1 | | | | | | | 10 4 | 2.575 | 5 0.644 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2009

| | | | | Vumber | of Indivi | duals wi | th Whole | Body E | oses in | the Rang | Number of Individuals with Whole Body Doses in the Ranges (rems)* | | | | | | | |
|--|-------------------|-------------|----------------|--------|-----------|----------|----------|--------|---------|----------|---|-----|-------|-----|--------------|----------------------|-----------------------|-----------------------|
| PROGRAM CODE - | # 11 ON 11 O | No Meas. | Meas. | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- | 4.00- | 9 | 6.00- | 9 | Total Number | Number with Meas. | Total Collective TEDE | Average Meas. TEDE |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARM | IBUTION – NUCLEAF | R PHARMACII | 1ACIES - 02500 | | 20.0 | 2:: | 201 | 2017 | 200 | | _ | | | 7.7 | Mollicoled | 2600 | (personal and) | (nem) |
| CARDINAL HEALTH - AK | 0707RA907-912 | - | ю | - | • | • | - | • | • | • | , | 1 | | • | 5 | 4 | 0.201 | 0.050 |
| CARDINAL HEALTH - AL | 1068 | • | 4 | - | • | • | • | • | • | • | , | 1 | , | -1 | 5 | ιO | 0.187 | 0.037 |
| CARDINAL HEALTH - AL | 1168 | 2 | 37 | 00 | 2 | - | • | • | • | • | , | | • | 1 | 20 | 84 | 3.504 | 0.073 |
| CARDINAL HEALTH - AL | 1290 | _ | - | | • | | • | | | 1 | • | • | • | 1 | 2 | - | 0.051 | 0.051 |
| CARDINAL HEALTH - AR | ARK-642-02500 | 28 | 45 | က | • | - 1 | • | • | • | , | , | • | • | 1 | 92 | 84 | 1.831 | 0.038 |
| CARDINAL HEALTH - AZ | 01-084 | 1 | 7 | | 2 | • | • | • | • | , | , | | 2 | , | 6 | o | 0.872 | 0.097 |
| CARDINAL HEALTH - AZ | 07-123 | 10 | 35 | 4 | 2 | • | • | 1 | • | • | , | , | • | 1 | 64 | 54 | 4.549 | 0.084 |
| CARDINAL HEALTH - AZ | 07-529 | - | - | က | , | 2 | - | 2 | 2 | , | , | 1.1 | , | 1 | 12 | 1 | 10.085 | 0.917 |
| CARDINAL HEALTH - AZ | 08-036 | • | 3 | , | - | • | • | ' | • | • | , | , | • | 1 | 4 | 4 | 0.545 | 0.136 |
| CARDINAL HEALTH - CA | 2891-37 | 1 | 14 | 7 | - | , | • | 1 | • | 1 | , | • | • | 1 | 22 | 22 | 1.924 | 0.087 |
| CARDINAL HEALTH - CA | 3317-19 | ю | 15 | | • | , | , | • | • | , | , | , | , | 1 | 18 | 15 | 0.219 | 0.015 |
| CARDINAL HEALTH - CA | 3426-43 | 5 | 00 | - | • | • | | • | • | 1 | | • | | 1 | 4 | o | 0.235 | 0.026 |
| CARDINAL HEALTH - CA | 3469-1 | ī | 2 | 2 | • | • | • | • | • | 1 | • | • | • | 1 | 7 | 7 | 0.608 | 0.087 |
| CARDINAL HEALTH - CA | 3469-2 | 1 | • | • | • | - | 2 | _ | - | • | | • | • | 1 | 5 | ß | 6.460 | 1.292 |
| CARDINAL HEALTH - CA | 3673-34 | ю | 34 | 4 | • | • | • | • | • | • | , | • | • | 1 | 41 | 38 | 1.164 | 0.031 |
| CARDINAL HEALTH - CA | 3822-19 | 7 | 37 | 15 | _ | - | - | • | • | 1 | • | • | • | 1 | 62 | 22 | 5.276 | 960.0 |
| CARDINAL HEALTH - CA | 3832-01 | 9 | 26 | က | • | • | 1 | | • | • | | • | • | • | 35 | 29 | 1.318 | 0.045 |
| CARDINAL HEALTH - CA | 4905-10 | 9 | 26 | 2 | • | • | • | • | • | • | , | • | • | 1 | 34 | 28 | 0.841 | 0.030 |
| CARDINAL HEALTH - CA | 4999-30 | 4 | 27 | 9 | - | • | • | • | • | 1 | • | 1 | • | 1 | 38 | 34 | 1.610 | 0.047 |
| CARDINAL HEALTH - CA | 5218-36 | 4 | 16 | - | 2 | က | - | • | • | 1 | , | • | • | 1 | 27 | 23 | 3.980 | 0.173 |
| CARDINAL HEALTH - CA | 5905-15 | - | 00 | • | • | ' | • | • | • | 1 | | | • | 1 | o | 00 | 0.219 | 0.027 |
| CARDINAL HEALTH - CA | 5910-50 | - | 2 | - | , | , | • | • | • | 1 | , | • | • | 1 | 7 | 9 | 0.187 | 0.031 |
| CARDINAL HEALTH - CA | 6321-45 | 4 | 60 | - | - | • | 1 | ' | • | • | | • | • | • | 41 | 10 | 0.668 | 0.067 |
| CARDINAL HEALTH - CA | 6691-33 | в | 7 | ' | • | ' | • | • | • | • | | | | 1 | 10 | 7 | 0.155 | 0.022 |
| CARDINAL HEALTH - CA | 6924-36 | 1 | - | | က | - | • | 2 | • | • | • | • | • | 1 | 7 | 7 | 4.932 | 0.705 |
| CARDINAL HEALTH - CA | 6925-19 | 1 | 2 | 2 | 9 | • | • | ' | • | • | , | • | • | 1 | 13 | 13 | 2.704 | 0.208 |
| CARDINAL HEALTH - CO | 162-06 | 4 | 14 | 2 | 2 | - | က | • | • | • | , | • | • | 1 | 29 | 25 | 5.860 | 0.234 |
| CARDINAL HEALTH - CO | 392-01 | 00 | 41 | 7 | 2 | • | • | - | • | 1 | , | 1 | • | 1 | 29 | 51 | 4.305 | 0.084 |
| CARDINAL HEALTH - CO | 392-03 | 7 | 36 | 7 | 2 | ' | 1 | • | • | 1 | , | • | • | 1 | 52 | 45 | 2.898 | 0.064 |
| CARDINAL HEALTH - CT | 00163 | 4 | 32 | თ | • | • | 1 | • | • | 1 | , | • | • | 1 | 48 | 4 | 2.431 | 0.055 |
| CARDINAL HEALTH - CT | 01567 | - | - | • | - | 1 | 2 | - | • | - | | | • | 1 | 5 | 2 | 4.024 | 0.805 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2009 (continued)

| | | | 2 | umper | of Individ | luals wit | h Whole | Body Do | Number of Individuals with Whole Body Doses in the Ranges (rems)* | ne Range | s (rems | | | | | | | |
|---|-----------------|-------------------------|----------------|-------|------------|-----------|---------|---------|---|----------|---------|-----------|-------|-------|---------------------------|------------------------------|--|--------------------------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- 3.00 4 | 3.00- 4. | 4.00- | 6.00-6.00 | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARMACIES - 02500 | JTION - NUCLEAR | PHARMACI | ES - 0250 | _ | | | | | | | | | | | | | | |
| CARDINAL HEALTH - FL | 1264-9 | - | 17 | 9 | 7 | 1 | 1 | , | | ı | , | 1 | , | 1 | 26 | 25 | 2.214 | 0.089 |
| CARDINAL HEALTH - FL | 3273-7 | - | 4 | • | 1 | T | 1 | • | , | 1 | | • | 1 | 1 | S | 4 | 0.037 | 0.009 |
| CARDINAL HEALTH - FL | 3453-1 | ω | 28 | 7 | - | í | 1 | 1 | , | Ť | | • | 1 | 1 | 4 | 36 | 1.639 | 0.046 |
| CARDINAL HEALTH - FL | 3453-13 | • | 2 | - | • | | 2 | | 1 | 1 | | • | , | 1 | S | 2 | 2.051 | 0.410 |
| CARDINAL HEALTH - FL | 3453-2 | 7 | 21 | 2 | 1 | 1 | , | 1 | | 1 | | , | , | 1 | 30 | 23 | 0.808 | 0.035 |
| CARDINAL HEALTH - FL | 3453-3 | 10 | 19 | 2 | • | • | , | • | | • | | • | | 1 | 31 | 21 | 0.544 | 0.026 |
| CARDINAL HEALTH - FL | 3453-5 | 7 | 00 | 9 | က | 1 | 2 | 1 | , | 1 | | 1 | , | 1 | 26 | 19 | 4.184 | 0.220 |
| CARDINAL HEALTH - FL | 3453-6 | 19 | 20 | 2 | • | 1 | , | • | • | 1 | | , | , | 1 | 41 | 22 | 0.821 | 0.037 |
| CARDINAL HEALTH - FL | 3453-7 | 4 | 28 | 10 | 2 | 1 | , | 1 | , | 1 | , | • | 1 | 1 | 4 | 4 | 3.297 | 0.082 |
| CARDINAL HEALTH - FL | 3453-8 | n | 28 | 9 | - | - | - | 1 | , | 1 | | 1 | , | 1 | 40 | 37 | 3.541 | 0.096 |
| CARDINAL HEALTH - FL | 3453-9 | 4 | 18 | က | - | 1 | 1 | • | - | 1 | | • | , | 1 | 27 | 23 | 4.193 | 0.182 |
| CARDINAL HEALTH - GA | GA-467-1MD | 4 | 17 | 2 | T | - | Т | 1 | 1 | 1 | - | 1 | 1 | 1 | 27 | 23 | 1.646 | 0.072 |
| CARDINAL HEALTH - GA | GA-467-2MD | ო | ω | 1 | • | • | , | • | , | • | | • | Y | • | 11 | ω | 0.062 | 0.008 |
| CARDINAL HEALTH - GA | GA-467-3MD | 2 | က | 1 | • | r | 1 | | , | 1 | | | í. | r | S | က | 0.042 | 0.014 |
| CARDINAL HEALTH - GA | GA-823-2MD | 2 | = | 2 | 1 | 7 | 1 | 1 | 1 | 1 | | • | , | 1 | 15 | 13 | 0.644 | 0.050 |
| CARDINAL HEALTH - IA | 0043-1-77-NP | o | 19 | - | ' | ' | , | • | , | 1 | , | • | , | 1 | 29 | 20 | 0.624 | 0.031 |
| CARDINAL HEALTH - IL | IL-01721-01 | O | 47 | 2 | က | ı | 1 | 1 | 1 | 1 | | • | 1 | 1 | 64 | 22 | 3.198 | 0.058 |
| CARDINAL HEALTH - IN | R0358-45 | 18 | 53 | 2 | 1 | 1 | 1 | • | | • | , | • | , | 1 | 49 | 31 | 0.933 | 0.030 |
| CARDINAL HEALTH - KS | 20-C495-01 | 13 | 24 | | 1 | 1 | 1 | | 1 | 1 | | 1 | , | 1 | 37 | 24 | 0.414 | 0.017 |
| CARDINAL HEALTH - KY | 202-204-32 | ω | 59 | - | • | 1 | 1 | • | , | 1 | | • | 1 | 1 | 38 | 30 | 0.519 | 0.017 |
| CARDINAL HEALTH - KY | 202-206-32 | r) | 20 | 2 | - | - | 7 | - | , | 1 | | • | , | 1 | 32 | 27 | 4.718 | 0.175 |
| CARDINAL HEALTH - KY | 202-333-32 | ı | 4 | 1 | • | 1 | 1 | | 1 | C | | | , | | 4 | 4 | 0.091 | 0.023 |
| CARDINAL HEALTH - LA | LA-10217-L01 | 2 | S | - | 1 | 1 | 1 | • | , | 1 | | • | , | 1 | 00 | 9 | 0.248 | 0.041 |
| CARDINAL HEALTH - LA | LA-10336-L01 | 1 | 7 | | 1 | 1 | • | , | | 1 | | 1 | , | 1 | 7 | 7 | 0.212 | 0.030 |
| CARDINAL HEALTH - LA | LA-3385-L01 | 10 | 12 | - | 1 | ı | 1 | 1 | T | 1 | 1 | 1 | , | 1 | 23 | 13 | 0.445 | 0.034 |
| CARDINAL HEALTH - LA | LA-5115-L01 | 1 | 13 | 4 | - | 1 | 1 | • | , | 1 | | • | , | 1 | 18 | 18 | 1.206 | 0.067 |
| CARDINAL HEALTH - LA | LA-5119-L01 | J. | 9 | • | 1 | ı | 1 | 1 | , | . 1 | | • | , | 1 | 11 | 9 | 0.092 | 0.015 |
| CARDINAL HEALTH - LA | LA-5394-L01 | - | 4 | 2 | 2 | 1 | 7 | | 1 | 1 | | 1 | , | 1 | 22 | 21 | 2.011 | 0.096 |
| CARDINAL HEALTH - LA | LA-7096-L01 | 4 | S | | 1 | T | 1 | • | , | 1 | | • | , | 1 | O | S | 0.134 | 0.027 |
| CARDINAL HEALTH - MA | 4008 | ť. | S | - | • | 2 | • | 2 | 7 | 1 | | 1 | | 1 | 12 | 12 | 8.611 | 0.718 |
| CARDINAL HEALTH - MA | 42-0146 | ю | 22 | 19 | o | 4 | 7 | • | | 1 | | 1 | | 1 | 62 | 29 | 11.329 | 0.192 |
| CARDINAL HEALTH - MD | MD-05-148-01 | ω | • | 1 | 1 | 1 | , | 1 | | 1 | , | 1 | 1 | 1 | ω | • | • | |
| CARDINAL HEALTH - MD | MD-33-177-01 | • | 3 | 4 | - | - | , | | , | | | 1 | , | 1 | 6 | 6 | 1.833 | 0.204 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2009 (continued)

| | | | 2 | umber o | f Individ | uals wit | h Whole | Body Do | ses in th | Number of Individuals with Whole Body Doses in the Ranges (rems)* | s (rems)* | | | | | | |
|--|-----------------|-------------------------|----------------|---------|-----------|----------|---------|---------|-----------------|---|-------------------------|-------|-------|---------------------------|------------------------------|--|--------------------------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- 3.00 4 | 3.00- 4. | 4.00- 5.00 5.00-6.00 | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION - NUCLEAR PHARA | JTION - NUCLEAR | PHARMACIE | MACIES - 02500 | | | | | | | | | | | | | | |
| CARDINAL HEALTH - MD | MD-33-198-01 | 7 | 39 | 18 | 7 | 2 | 1 | - | | 1 | | | 1 | 77 | 70 | 11.724 | 0.167 |
| CARDINAL HEALTH - ME | 19233 | - | က | - | • | 1 | • | 1 | | • | , | | 1 | 5 | 4 | 0.141 | 0.035 |
| CARDINAL HEALTH - MN | 1037-205-89 | 13 | 38 | 9 | က | - | ٠ | 1 | | 1 | | | • | 61 | 48 | 3.061 | 0.064 |
| CARDINAL HEALTH - MN | 1045-100-89 | i | • | • | 7 | 2 | 7 | 1 | | 1 | , | | • | 9 | 9 | 3.865 | 0.644 |
| CARDINAL HEALTH - MO | 2840 | 23 | 84 | 9 | က | , | • | 1 | | 1 | | | 1 | 80 | 22 | 2.705 | 0.047 |
| CARDINAL HEALTH - MO | 6141 | , | • | 2 | 2 | 1 | • | 1 | | 1 | | | 1 | 4 | 4 | 1.087 | 0.272 |
| CARDINAL HEALTH - MS | MS-493-01 | 7 | 12 | 4 | က | 2 | , | 1 | | 1 | | | 1 | 23 | 21 | 3.242 | 0.154 |
| CARDINAL HEALTH - MS | MS-781-01 | • | ო | - | - | 1 | • | 1 | | 1 | | | 1 | 5 | 5 | 0.417 | 0.083 |
| CARDINAL HEALTH - MS | MS-924-01 | - | 4 | • | • | 1 | • | -1 | | 1 | | ' | • | 3 | 4 | 0.128 | 0.032 |
| CARDINAL HEALTH - MS | MS-974-01 | , | - | - | • | - | • | - | | 1 | | | • | 4 | 4 | 1.967 | 0.492 |
| CARDINAL HEALTH - NC | 011-0794-7 | е | ις | 2 | - | - | • | 1 | | 1 | | | • | 12 | 6 | 1.347 | 0.150 |
| CARDINAL HEALTH - NC | 025-0794-10 | 7 | 13 | - | - | 1 | • | 1 | | 1 | , | | • | 17 | 15 | 0.653 | 0.044 |
| CARDINAL HEALTH - NC | 026-0794-8 | 1 | 12 | က | • | 1 | • | 1 | | 1 | , | | • | 15 | 15 | 0.662 | 0.044 |
| CARDINAL HEALTH - NC | 041-0794-5 | 5 | 10 | 2 | • | 1 | • | 1 | | 1 | | | • | 17 | 12 | 0.581 | 0.048 |
| CARDINAL HEALTH - NC | 060-0794-1 | 4 | 22 | 2 | 4 | 2 | • | т | | 1 | | | • | 43 | 39 | 7.986 | 0.205 |
| CARDINAL HEALTH - NE | 01-65-01 | 7 | 56 | က | 4 | 2 | • | 7 | | 1 | | | • | 44 | 37 | 6.551 | 0.177 |
| CARDINAL HEALTH - NM | AP-403-13 | 1 | - | - | • | - | - | - | | 1 | | | • | 5 | 2 | 2.647 | 0.529 |
| CARDINAL HEALTH - NM | RP396-02 | 5 | 16 | က | - | , | • | 1 | | 1 | | | • | 25 | 20 | 1.262 | 0.063 |
| CARDINAL HEALTH - NV | 03-11-0150-01 | 4 | 13 | ю | ٠ | • | • | • | | | | | • | 20 | 16 | 0.847 | 0.053 |
| CARDINAL HEALTH - NV | 03-11-0332-01 | - | - | 12 | က | - | က | 1 | | 1 | | | • | 21 | 20 | 6.151 | 0.308 |
| CARDINAL HEALTH - NV | 03-11-0505-01 | ī | • | • | 7 | - | ٠ | 1 | | ı | | | 1 | က | က | 1.443 | 0.481 |
| CARDINAL HEALTH - NV | 092-0794-6 | 7 | 56 | က | ю | | • | 1 | | 1 | | | • | 34 | 32 | 2.303 | 0.072 |
| CARDINAL HEALTH - NY | C2328 | 7 | 9 | 4 | - | , | • | 1 | | 1 | 1 | | 1 | 18 | 11 | 1.215 | 0.110 |
| CARDINAL HEALTH - NY | C2364 | 12 | 20 | က | - | | • | 1 | | 1 | | | • | 36 | 24 | 1.066 | 0.044 |
| CARDINAL HEALTH - NY | C2449 | 7 | 16 | ო | 7 | | • | 1 | | 1 | | | • | 28 | 21 | 1.557 | 0.074 |
| CARDINAL HEALTH - NY | C2588 | 5 | 17 | • | • | | • | 1 | | 1 | | | 1 | 22 | 17 | 0.393 | 0.023 |
| CARDINAL HEALTH - NY | C2593 | ω | 23 | - | • | | ٠ | 1 | | | | | • | 32 | 24 | 0.769 | 0.032 |
| CARDINAL HEALTH - NY | C2613 | 4 | 4 | - | | | • | 1 | • | 1 | | | • | 19 | 15 | 0.649 | 0.043 |
| CARDINAL HEALTH - NY | C3046 | ю | 53 | က | - | | • | 1 | , | 1 | | | 1 | 36 | 33 | 1.357 | 0.041 |
| CARDINAL HEALTH - NY | C3153 | - | 4 | • | က | - | ٠ | 1 | | 1 | , | | • | 0 | 00 | 1.812 | 0.227 |
| CARDINAL HEALTH - OH | 02500180000 | 5 | 20 | 2 | - | 1 | • | 1 | , | 1 | | | 1 | 28 | 23 | 1.013 | 0.044 |
| CARDINAL HEALTH - OH | 02500250000 | 14 | 30 | თ | က | 2 | - | 1 | | 1 | | | • | 29 | 45 | 5.058 | 0.112 |
| CARDINAL HEALTH - OH | 02500310000 | 2 | ω | 2 | - | • | • | | | | | | • | 13 | 11 | 1.259 | 0.114 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2009 (continued)

| | | | 2 | umber | f Individ | Number of Individuals with Whole Body Doses in the Ranges (rems) | Whole | Body Do | ses in th | Range | (rems)* | | | | | | |
|---------------------------------|---------------|-------------------|----------------|-------|-----------|--|-------|---------|--------------------|----------------------|---------------------------|-------|-------|--------------------------|--------------------|----------------------|---------------------|
| | | No | | | | | | | | | | | | | Number | Total Collective | Average |
| PROGRAM CODE - LICENSEE NAME | LICENSE# | Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 1.00 | 1.00- | 2.00- 3. 3.00 4 | 3.00- 4.0 4.00 5. | 4.00- 5.00 5.00-6.00 | 6.00- | >12.0 | Total Number Monitored | with Meas. Dose | TEDE (person-rem) | Meas. TEDE (rem) |
| AND DISTRIBUT | ION - NUCLEAR | PHARMACIE | S - 02500 | | | | | | | | | | | | | | |
| CARDINAL HEALTH - OH 0 | 02500490001 | 17 | 18 | 2 | • | • | • | 1 | | • | | | • | 4 | 23 | 1.180 | 0.051 |
| CARDINAL HEALTH - OH | 02500580000 | 10 | 19 | က | • | 1 | | • | , | 1 | | | r | 32 | 22 | 0.823 | 0.037 |
| CARDINAL HEALTH - OH | 02500790000 | • | 12 | • | • | • | • | ٠ | , | | | | • | 12 | 12 | 0.268 | 0.022 |
| CARDINAL HEALTH - OH | 03214250004 | • | 4 | - | - | 2 | ٠ | - | , | | | Ċ | • | 0 | თ | 2.860 | 0.318 |
| CARDINAL HEALTH - OH | 03214310000 | • | 2 | • | 2 | • | | 2 | , | • | | _ | • | ø | 9 | 4.090 | 0.682 |
| CARDINAL HEALTH - OH | 4853-19 | 10 | တ | | • | 1 | • | | , | | | Ĺ | • | 19 | တ | 0.051 | 900.0 |
| CARDINAL HEALTH - OK | OK-19583-02MD | 4 | 16 | • | • | • | ٠ | • | , | | | | • | 30 | 16 | 0.331 | 0.021 |
| CARDINAL HEALTH - OK | OK-23359-02MD | 4 | 21 | • | • | • | | • | , | • | | | • | 25 | 21 | 0.360 | 0.017 |
| CARDINAL HEALTH - OR | ORE-90509 | - | တ | 4 | က | - | 7 | • | • | • | | | • | 20 | 19 | 4.194 | 0.221 |
| CARDINAL HEALTH - OR | ORE-90703 | 4 | 4 | 2 | 2 | • | | • | , | • | | | 1 | 22 | 18 | 1.161 | 0.065 |
| CARDINAL HEALTH - OR | ORE-90914 | • | 9 | 2 | • | • | | • | , | • | | | • | 80 | 00 | 0.280 | 0.035 |
| CARDINAL HEALTH - PA | 10239-02-002 | - | 16 | 9 | က | 1 | | • | , | 1 | | | • | 26 | 25 | 2.717 | 0.109 |
| CARDINAL HEALTH - PA | 10239-03-004 | | • | • | • | • | ٠ | • | , | - | | | 1 | - | - | 3.925 | 3.925 |
| CARDINAL HEALTH - PA | 10239-03-006 | - | က | 2 | - | 2 | | - | , | • | | | • | 10 | o | 2.742 | 0.305 |
| CARDINAL HEALTH - PA | AC50-58988 | • | • | က | • | 1 | ٠ | • | , | - | | | 1 | ო | က | 0.548 | 0.183 |
| CARDINAL HEALTH - PA | PA-0384 | 9 | 33 | 4 | က | 2 | , | • | , | • | | • | ' | 48 | 42 | 3.754 | 0.089 |
| CARDINAL HEALTH - PA | PA-0385 | 13 | 64 | 4 | 9 | 2 | | • | | • | | | , | 81 | 89 | 8.139 | 0.120 |
| CARDINAL HEALTH - PA | PA-0415 | - | 54 | ю | • | 1 | | • | , | 1 | | | | 28 | 27 | 1.168 | 0.043 |
| CARDINAL HEALTH - PA | PA-0460 | က | 13 | 2 | • | 1 | • | • | , | • | | | • | 18 | 15 | 0.555 | 0.037 |
| CARDINAL HEALTH - PA | PA-0643 | 5 | 13 | • | • | • | | • | , | 1 | | | • | 18 | 13 | 0.429 | 0.033 |
| CARDINAL HEALTH - PA | PA-0680 | 9 | 17 | က | 1 | 1 | • | • | , | | | | 1 | 26 | 20 | 0.853 | 0.043 |
| CARDINAL HEALTH - PA | PA-0851 | • | • | • | • | 1 | • | - | , | • | | ' | • | - | - | 1.779 | 1.779 |
| CARDINAL HEALTH - PA | PA-0892 | 9 | 15 | 2 | • | 1 | • | • | , | | | | • | 23 | 17 | 0.747 | 0.044 |
| CARDINAL HEALTH - PA | PA-0893 | o | • | | - | 1 | | • | , | 1 | , | | • | 10 | - | 0.276 | 0.276 |
| CARDINAL HEALTH - RI | 3B-114-01 | က | 31 | က | • | 1 | | • | , | 1 | | , | • | 37 | 34 | 1.133 | 0.033 |
| CARDINAL HEALTH - SC 4 | 448 | 4 | 19 | • | • | 1 | | 1 | , | , | | ' | 1 | 23 | 19 | 0.514 | 0.027 |
| CARDINAL HEALTH - SD 4 | 47111 | - | 1 | က | • | 1 | , | • | , | 1 | | ' | 1 | 41 | 13 | 1.056 | 0.081 |
| CARDINAL HEALTH - TN | R-19199-B15 | 2 | 28 | 2 | 1 | 1 | ٠ | • | , | 1 | | | 1 | 35 | 30 | 1.083 | 0.036 |
| CARDINAL HEALTH - TN | R-33111-114 | - | 16 | - | • | 1 | | • | , | 1 | | | T | 18 | 17 | 0.481 | 0.028 |
| CARDINAL HEALTH - TN | R47080-L14 | 7 | 19 | 4 | • | , | | • | • | ' | | ' | ' | 30 | 23 | 0.940 | 0.041 |
| CARDINAL HEALTH - TN | R-57025-C15 | က | က | 2 | | 1 | • | • | 1 | • | , | , | 1 | 80 | S | 0.287 | 0.057 |
| CARDINAL HEALTH - TN | R-71029-B11 | 2 | 9 | • | • | 1 | | • | , | | | | 1 | ω | 9 | 0.199 | 0.033 |
| CARDINAL HEALTH - TN F | R-79174-D17 | 8 | 12 | 4 | 4 | • | Y | • | | • | | • | • | 23 | 20 | 2.134 | 0.107 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2009 (continued)

| | | | ۷ | lumber | of Indivi | duals wi | th Whole | Body D | oses in | he Rang | Number of Individuals with Whole Body Doses in the Ranges (rems)* | | | | | | | |
|---|-----------------|-------------------------|----------------|--------|-----------|----------|----------|--------|---------|---------|---|-----|-------|---|---------------------------|------------------------------|--|--------------------------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- | 4.00- 5.00 5.00-6.00 | | 6.00- | T | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARMACIES – 02500 | JTION – NUCLEAI | R PHARMACI | ES - 0250 | | | | | | | | | | | | | | | |
| CARDINAL HEALTH - TX | L0-1911 | 17 | 32 | တ | ∞ | - | • | • | • | • | | | • | | 29 | 20 | 5.989 | 0.120 |
| CARDINAL HEALTH - TX | L0-1999 | 7 | 10 | ю | • | 1 | • | 1 | • | • | , | • | , | , | 16 | 4 | 1.505 | 0.108 |
| CARDINAL HEALTH - TX | L0-2033 | 10 | 27 | တ | 9 | - | • | • | • | • | | , | | | 53 | 43 | 4.782 | 0.111 |
| CARDINAL HEALTH - TX | L0-2048 | ო | 31 | 4 | 9 | - | • | • | • | 1 | | 1 | , | 1 | 45 | 42 | 4.084 | 0.097 |
| CARDINAL HEALTH - TX | L0-2117 | 2 | 4 | က | • | • | • | • | • | 1 | | , | , | | 19 | 17 | 0.760 | 0.045 |
| CARDINAL HEALTH - TX | L0-2737 | 5 | 7 | - | ' | • | | | • | • | | - | , | | 13 | 00 | 0.218 | 0.027 |
| CARDINAL HEALTH - TX | L0-3398 | - | 10 | • | • | • | • | • | • | • | , | • | , | • | 11 | 10 | 0.243 | 0.024 |
| CARDINAL HEALTH - TX | L0-4043 | 4 | 2 | - | | • | • | • | • | • | , | • | , | • | 10 | 9 | 0.297 | 0.050 |
| CARDINAL HEALTH - TX | L0-4573 | 7 | 00 | - | • | • | • | • | ٠ | | • | - | , | • | 11 | თ | 0.217 | 0.024 |
| CARDINAL HEALTH - TX | L0-4781 | - | 22 | - | • | • | • | 1 | • | 1 | | • | , | 1 | 27 | 26 | 0.374 | 0.014 |
| CARDINAL HEALTH - TX | L0-4785 | 5 | 10 | - | • | 1 | • | 1 | • | • | , | 1 | , | 1 | 16 | 1 | 0.427 | 0.039 |
| CARDINAL HEALTH - TX | L0-5461 | 1. | 7 | • | • | 1 | • | 1 | • | | | • | , | • | 7 | 7 | 0.169 | 0.024 |
| CARDINAL HEALTH - TX | L0-5536 | 1 | - | - | - | 1 | 2 | 1 | • | • | | • | , | • | 5 | 2 | 2.351 | 0.470 |
| CARDINAL HEALTH - TX | L0-5610 | ı | • | - | 2 | • | • | • | • | 1 | , | . 1 | , | • | က | ю | 0.960 | 0.320 |
| CARDINAL HEALTH - TX | R33624 | n | 10 | Э | 2 | - | - | • | - | • | | 1 | , | | 21 | 18 | 5.355 | 0.298 |
| CARDINAL HEALTH - UNITED STATES | R-79272-111 | - | က | • | - | | • | • | • | • | | , | , | • | 5 | 4 | 0.574 | 0.144 |
| CARDINAL HEALTH - US | 065-0794-11 | - | 9 | က | • | • | • | 1 | • | • | | • | , | 1 | 10 | O | 0.794 | 0.088 |
| CARDINAL HEALTH - US | CH-US-001 | 18 | 32 | œ | 9 | • | - | • | - | • | , | • | , | 1 | 99 | 48 | 7.629 | 0.159 |
| CARDINAL HEALTH - UT | UT-1800225 | 9 | 18 | 2 | | • | • | • | • | • | , | • | , | • | 26 | 20 | 0.893 | 0.045 |
| CARDINAL HEALTH - VA | 760-34-1 | 9 | 45 | 7 | - | • | • | • | • | • | , | • | , | | 29 | 23 | 2.534 | 0.048 |
| CARDINAL HEALTH - WA | WN-NP003-1 | m | 78 | 5 | • | • | • | • | • | • | | , | , | • | 36 | 33 | 1.599 | 0.048 |
| CARDINAL HEALTH - WA | WN-NP004-1 | 4 | 21 | 2 | - | | • | • | • | ' | | 1 | , | • | 28 | 24 | 1.231 | 0.051 |
| CARDINAL HEALTH - WA | WN-NP005-1 | 2 | 17 | • | • | • | • | • | • | 1 | , | | , | | 19 | 17 | 0.575 | 0.034 |
| CARDINAL HEALTH - WA | WN-NP006-1 | | 4 | 2 | • | • | • | • | • | • | | • | , | • | 9 | 9 | 0.495 | 0.083 |
| CARDINAL HEALTH - WA | WN-NP011-1 | 7 | 4 | - | - | - | 2 | • | • | - | , | • | , | • | 12 | 10 | 5.871 | 0.587 |
| CARDINAL HEALTH - WI | 025-1123-01 | 2 | 20 | 9 | • | ٠ | • | • | ٠ | 1 | , | 1 | , | | 28 | 26 | 1.290 | 0.050 |
| CARDINAL HEALTH - WI | 087-1312-01 | 15 | 4 | က | , | • | • | • | 1 | • | | • | , | • | 32 | 17 | 0.810 | 0.048 |
| CARDINAL HEALTH - WI | 141-1306-01 | 5 | 12 | • | • | • | • | 1 | • | • | | 1 | , | ' | 17 | 12 | 0.241 | 0.020 |
| GE HEALTHCARE | PA-0515 | 23 | 13 | 7 | • | • | 2 | • | • | 1 | | • | , | | 43 | 20 | 1.596 | 0.080 |
| GE HEALTHCARE - ANAHEIM | 4810-30 | 18 | 0 | • | • | • | • | • | 1 | • | | • | , | • | 27 | O | 0.266 | 0.030 |
| GE HEALTHCARE - SACRAMENTO | 4809-34 | 22 | 7 | • | • | • | • | 1 | • | 1 | | 1 | , | 1 | 29 | 7 | 0.186 | 0.027 |
| GE HEALTHCARE - SAN DIEGO | 5796-37 | O | 10 | • | • | • | • | 1 | • | 1 | | | , | 1 | 19 | 10 | 0.331 | 0.033 |
| GE HEALTHCARE - SAN JOSE | 4811-43 | 4 | 9 | 2 | 2 | * | • | • | • | • | | - | | ٠ | 17 | 13 | 1.681 | 0.129 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2009 (continued)

| | | | | IIImher | of Individ | lials wif | h Whole | Number of Individuals with Whole Body Doses in the Ranges (rems)* | spe in th | le Range | s (rems) | | | | | | | |
|---|-----------------|-------------------------|----------------|---------|------------|-----------|---------|---|-----------|-------------|----------|-----------|-------|-------|---------------------------|------------------------------|--|--------------------------------|
| | | | | | | | | 6 | | a Gillari a | (2112) | ŀ | ŀ | | | | | |
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- 3 | 3.00- 4. | 4.00- | 5.00-6.00 | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Total Collective TEDE (person-rem) | Average Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARMACIES – 02500 | ION – NUCLEAR | PHARMACIE | S - 0250 | | | | | | | | | | | | | | | |
| GE HEALTHCARE - VAN NUYS 5 | 5143-19 | 11 | 7 | - | • | 1 | ٠ | 1 | | • | | • | • | 1 | 19 | 00 | 0.364 | 0.046 |
| IBA MOLECULAR NORTH AMERICA, INC. | CA-7131-43 | 4 | 4 | œ | 7 | 2 | 7 | 3 | - | , | | 1 | • | , | 36 | 32 | 11.199 | 0.350 |
| MALLINCKRODT, INC. 8 | 859-01 | 00 | က | 2 | • | • | • | 1 | | • | | • | • | 1 | 13 | ഹ | 0.500 | 0.100 |
| MALLINCKRODT, INC. | PA-0541 | 4 | ю | 2 | 7 | • | • | 1 | | , | | 1 | ٠ | 1 | = | 7 | 1.080 | 0.154 |
| MALLINCKRODT, INC. | PA-0842 | 10 | က | 2 | - | | • | 1 | | , | | , | • | 1 | 16 | 9 | 0.843 | 0.141 |
| MORAVEK BIOCHEMICALS, INC. | 2960-30 | 2 | 23 | 9 | 1 | - | • | - | | • | | 1 | • | 1 | 33 | 31 | 4.340 | 0.140 |
| TRIAD ISOTOPES, INC. | PA-0479 | 2 | 12 | 4 | 2 | 1 | • | 1 | | , | | • | | 1 | 20 | 18 | 1.931 | 0.107 |
| TRIAD ISOTOPES, INC. | PA-0637 | 10 | 4 | • | 1 | 1 | • | 1 | , | , | , | , | • | 1 | 4 | 4 | 0.181 | 0.045 |
| Total | 171 | 818 | 2,472 | 492 | 185 | 64 | 36 | 27 | 6 | 2 | | 1 | | 1 | 4,105 | 3,287 | 340.924 | 0.104 |
| WELL LOGGING BYPRODUCT AND/OR SNIN SEALED SOURCES ONLY - 03111 | OR SNIM SEALE | D SOURCES | ONLY- | 3111 | | | | | | | | | | | | | | |
| ISOTOPE PRODUCTS LABS | 1509-19 | က | 22 | 15 | в | 9 | œ | 1 | | , | | • | • | - | 89 | 99 | 30.503 | 0.469 |
| Total 1 | | ဗ | 22 | 15 | က | 9 | ∞ | 11 | ٠ | | | | | - | 89 | 99 | 30.503 | 0.469 |
| MANUFACTURING AND DISTRIBUTION - OTHER - 03214 | ION - OTHER - 0 | 3214 | | | | | | | | | | | | | | | | |
| HOCHIKI AMERICA CORPORATION | 2090-30 | 18 | • | | • | | | 1 | | 1 | | 1 | • | 1 | 18 | | • | |
| J. L. SHEPHERD AND ASSOCIATES | CA 1777-19 | 14 | 7 | 3 | 2 | • | • | 1 | | • | | • | • | - | 26 | 12 | 1.365 | 0.114 |
| Total 2 | ~ | 32 | 7 | က | 2 | ' | · | | | | | | | | 44 | 12 | 1.365 | 0.114 |
| INSTRUMENT CALIBRATION SERVICE ONLY - SOURCE > 100 CURIES - 03222 | CE ONLY - SOU | RCE > 100 C | URIES - (| 3222 | | | | | | | | | | | | | | |
| EXELON POWERLABS | PA-1017 | 34 | • | | 1 | • | | 1 | | , | | 1 | • | | 34 | | • | • |
| Total 1 | | 34 | | ٠ | | | ٠ | ٠ | ٠ | | | | | | 34 | | | |
| OTHER SERVICES - 03225 | | | | | | | | | | | | | | | | | | |
| HYSPAN PRECISION PRODUCTS, INC. | 7010-37 | , | - | -1 | - | • | • | 1 | | , | | 1 | , | , | 2 | 2 | 0.414 | 0.207 |
| Total 1 | | • | - | | - | • | · | | ٠ | | | | | | 2 | 2 | 0.414 | 0.207 |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR REPAC | ESSING AND/OR | REPACKAG | KAGING - 03234 | 34 | | | | | | | | | | | | | | |
| ENVIRONMENTAL MANAGEMENT & 3 CONTROLS | 3546-50 | - | | | | - | • | - | | • | | - 1 | | 1 | 3 | 2 | 1.712 | 0.856 |
| Total 1 | | - | | | • | - | | - | | | | | | | 3 | 2 | 1.712 | 0.856 |
| INDUSTRIAL RADIOGRAPHY – FIXED LOCATION – 03310 | D LOCATION - | 03310 | | | | | | | | | | | | | | | | |
| SONGS - RADIOGRAPHY GROUP | CA-5244-30 | 80 | • | 1 | • | 1 | • | 1 | | • | | • | • | • | 9 | 1 | 0.126 | 0.126 |
| Total | | 00 | | - | • | | | | | | | | | | 6 | - | 0.126 | 0.126 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2009 (continued)

| | | | _ | lumber | of Indivi | duals wit | h Whole | Body Do | ses in th | Number of Individuals with Whole Body Doses in the Ranges (rems)* | s (rems)* | | | | | | | |
|---|---------------|-------------------|----------------|---------------|---------------|-----------|---------------|---------|-------------------|---|--------------------|----------------|-------|-------|---------------------------|--------------------|----------------------|---------------------|
| | | No | | | | | | _ | _ | _ | | | | | | | Total Collective | Average |
| PROGRAM CODE - LICENSEE NAME | LICENSE# | Meas. Exposure | Meas. <0.10 | 0.10- 0.25 | 0.25- 0.50 | 0.50- | 0.75- 1.00 | 1.00- | 2.00- 3 3.00 4 | 3.00- 4. 4.00 5. | 4.00- 5.00 5.00 | 6 5.00-6.00 | 6.00- | >12.0 | Total Number Monitored | with Meas. Dose | TEDE (person-rem) | Meas. TEDE (rem) |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – 03320 | MPORARY JOB S | ITE - 03320 | | | | | | | | | | | | | | | | |
| ADVEX CORPORATION | 650-254-1 | 2 | က | _ | - | 1 | • | 1 | , | 1 | , | • | , | 1 | 7 | 5 | 0.522 | 0.104 |
| ALARON CORPORATION | PA-0678 | ω | 69 | ω | 13 | თ | 4 | 0 | ю | 1 | , | • | , | 1 | 123 | 115 | 36.528 | 0.318 |
| ALPHA-OMEGA SERVICES, INC. | 3925-19 | 7 | 10 | က | • | Ť | , | • | , | • | , | 1 | | 1 | 20 | 13 | 0.588 | 0.045 |
| AUTOMATION AND CONTROL TECHNOLOGY | 03214250001 | 9 | = | 2 | | 1 | • | 1 | • | 1 | , | 1 | , | 1 | 19 | 13 | 0.905 | 0.070 |
| BAKER INSPECTION GROUP | OH-0332077 | 4 | - | - | - | 1 | • | 1 | • | • | , | • | , | 1 | 7 | 8 | 0.497 | 0.166 |
| BRAUN INTERTEC CORPORATION | 1082-103-27 | 9 | 10 | - | က | - | 4 | 10 | 7 | - | | , | • | | 38 | 32 | 29.913 | 0.935 |
| CERTIFIED TESTING LABORATORIES, INC. 507161 | 507161 | 4 | ω | - | - | - | • | 1 | , | | | • | | 1 | 15 | 7 | 1.261 | 0.115 |
| CERTIFIED TESTING LABORATORIES, INC. NYS C1920 | NYS C1920 | 7 | 5 | 4 | - | 1 | • | 1 | | • | | 1 | • | 1 | 12 | 10 | 1.333 | 0.133 |
| CONSTRUCTION MATERIALS TESTING, INC. 0799-07 | 3. 0799-07 | 4 | က | • | ı | • | • | • | • | | ı | - | • | | 7 | က | 0.073 | 0.024 |
| COOPERHEAT-MQS INSPECTION | 388-01 | 5 | ß | က | 10 | 5 | ιΩ | 4 | | | | • | | • | 37 | 32 | 17.403 | 0.544 |
| CTL - ASTROTECH DIVISION | PA-0430 | 12 | 7 | 2 | 1 | • | ' | • | , | • | , | • | , | 1 | 21 | 0 | 0.455 | 0.051 |
| EDGE INSPECTION GROUP, INC. | CA-7214-48 | • | 7 | - | 9 | ო | 7 | - | | 1 | 1 | • | , | 1 | 20 | 20 | 7.036 | 0.352 |
| EG&G TECHNICAL SERVICES, INC. | EGG-4077-1 | 18 | က | 2 | • | 1 | 1 | • | ٠ | 1 | , | • | , | 1 | 23 | 5 | 0.395 | 0.079 |
| EWER TESTING & INSPECTION, INC. | ND-33-32610 | - | - | • | 7 | 7 | 7 | - | , | 1 | , | • | , | 1 | 6 | 80 | 5.349 | 0.669 |
| INTERNATIONAL INSPECTION, INC. | 5046-19 | 4 | 4 | - | - | - | • | 1 | , | 1 | | • | , | 1 | 11 | 7 | 1.081 | 0.154 |
| MIDWEST INDUSTRIAL X-RAY, INC. | ND-33-27427 | , | ' | • | - | က | ო | 10 | 7 | • | , | • | , | • | 19 | 19 | 23.312 | 1.227 |
| MISTRAS GROUP, INC. | 4886-48 | 4 | 16 | 4 | 4 | 4 | 1 | 13 | , | 1 | , | • | , | 1 | 76 | 72 | 41.389 | 0.575 |
| NDT LABORATORIES, INC. | 1651-43 | 8 | 2 | - | • | 1 | , | | , | 1 | | , | 1 | 1 | 9 | 3 | 0.283 | 0.094 |
| NORTHROP GRUMMAN | 0043 43 | 10 | • | • | • | 1 | ' | • | ٠ | • | , | • | , | 1 | 10 | • | • | |
| POLE BROTHERS IMAGING COMPANY | 069-451-1 | • | - | - | • | - | ' | - | • | 1 | , | • | 1 | 1 | ю | 8 | 0.767 | 0.256 |
| PRECISION CUSTOM COMPONENTS | PA-1042 | 17 | 2 | • | 1 | 1 | 1 | • | , | | , | • | , | 1 | 19 | 2 | 0.002 | 0.001 |
| QUALITY INSPECTION SERVICES, INC. | 3043-1 | • | 80 | • | • | 2 | - | • | • | 1 | , | 1 | ī | 1 | 11 | 1 | 2.235 | 0.203 |
| QUALITY INSPECTION SERVICES, INC. | 3043-2 | • | 1 | 2 | • | 1 | 1 | 1 | | | | • | • | 1 | 3 | 3 | 0.445 | 0.148 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2009 (continued)

| | | | | Impor | of Indivi | Anale wit | h Mhole | Body Do | Nimber of Individuals with Whole Body Doses in the Bannes frame)* | Sopue 6 | (rome)* | | | | | | |
|--|----------------|-------------------|----------------|---------------|---------------|---------------|---------|-------------------|---|--------------------------|--------------------|-------------------|-------|---------------------------|----------------------|----------------------|---------------------|
| | | | | | | Tages with | 1000 | 200 | 111111111111111111111111111111111111111 | r ivaliges | (ems) | | | | | | |
| | | No | | | | | | | | | | | | | | Total Collective | Average |
| PROGRAM CODE - LICENSEE NAME | LICENSE# | Meas. Exposure | Meas. <0.10 | 0.10- 0.25 | 0.25- 0.50 | 0.50- 0.75 | 1.00 | 1.00- 2 2.00 : | 2.00- 3. 3.00 4. | 3.00- 4.00- 4.00 5.00 | 0- 10 5.00-6.00 | 6.00- 00 12.00 | >12.0 | Total Number Monitored | r with Meas. Dose | TEDE (person-rem) | Meas. TEDE (rem) |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – 03320 | MPORARY JOB S | STE - 03320 | | | | | | | | | | | | | | | |
| QUALITY INSPECTION SERVICES, INC. | C3267 | - | က | | • | - | | - | | 1 | | 1. | | 9 | 3 | 1.750 | 0.350 |
| QUALITY INSPECTION SERVICES, INC. | LO-6219 | - | - | 2 | ß | 1 | - | 2 | , | , | , | 1 | , | 12 | 11 | 5.619 | 0.511 |
| QUALITY INSPECTION SERVICES, INC. | NYS C2514 | - | 10 | - | 4 | က | 4 | 2 | | - | , | | ' | 28 | 27 | 14.437 | 0.535 |
| QUALITY INSPECTION SERVICES, INC. | NYS C2700 | 1 | 2 | 2 | 9 | - | - | - | | , | , | 1 | | 13 | 13 | 5.027 | 0.387 |
| QUALITY INSPECTION SERVICES, INC. | NYS DOH C2505 | 1 | • | က | • | - | • | 1 | | | , | | | 4 | 4 | 0.962 | 0.241 |
| QUALITY INSPECTION SERVICES, INC. | PA-1350 | 1 | 4 | 2 | - | 1 | • | 1. | | - | , | | | 7 | 7 | 1.130 | 0.161 |
| SPX HEAT TRANSFER, INC. | OK-13735 | • | က | 1 | • | 1 | ٠ | 1 | , | • | , | | , | ю | e | 0.068 | 0.023 |
| SUBSURFACE IMAGING, INC. | 7449-19 | 2 | 7 | 7 | ß | 1 | - | , | | | | | | 17 | 15 | 3.581 | 0.239 |
| TC INSPECTION, INC. | 5299-07 | 32 | 17 | 13 | 4 | 10 | 7 | 80 | က | - | | | | 105 | 73 | 41.805 | 0.573 |
| TESTING ENGINEERS, INC. | 1898-01 | - | 2 | - | | - | • | 1 | | , | | | , | 2 | 4 | 0.846 | 0.212 |
| THERMO GAMMA METRICS | 3775-37 | 28 | 7 | - | ' | 1 | , | 1 | , | • | , | | , | 70 | 12 | 0.530 | 0.044 |
| THREE RIVERS GAMMA SERVICES | PA-1165 | • | • | • | | 1 | ٠ | 2 | ı | - | , | -1 | | 2 | 2 | 2.850 | 1.425 |
| VALLEY INDUSTRIAL X-RAY & INSPECTION CA-4182-15 | CA-4182-15 | 16 | 83 | 20 | = | 18 | 12 | 28 | 7 | | , | 1 | | 145 | 129 | 87.723 | 0.680 |
| WESTERN INDUSTRIAL X-RAY | 4424-48 | - | 2 | - | 4 | 3 | , | - | , | - | | | | 12 | 11 | 4.514 | 0.410 |
| WESTERN X-RAY CORPORATION | 5324-56 | 5 | 2 | က | - | | | - | | • | | | | 12 | 7 | 2.235 | 0.319 |
| Total | 38 | 235 | 274 | 88 | 105 | 8 | 28 | 97 | 17 | 2 | | | | - 957 | 722 | 344.849 | 0.478 |
| IRRADIATORS - OTHER - LESS THAN 10000 CURIES - 03511 | AN 10000 CURIE | S - 03511 | | | | | | | | | | | | | | | |
| INDUSTRIAL NUCLEAR CO., INC. | 2229-01 | 9 | • | - | - | - | • | - | , | • | | | | 10 | 4 | 2.113 | 0.528 |
| Total | 1 | 9 | | 1 | 1 | 1 | • | 1 | | | | | | - 10 | 4 | 2.113 | 0.528 |
| NO PROGRAM CODE | | | | | | | - 4 | | - 3 | | | | | | | | |
| BUFFALO GASTROENTEROLOGY ASSOCIATES, LLP | 1363121 | | - | • | , | • | , | , | | • | , | | , | - | - | 0.014 | 0.014 |
| Total | 1 | • | - | ľ | ľ | | • | | | ٠ | | | | | 1 | 0.014 | 0.014 |

 $\begin{tabular}{ll} {\bf APPENDIX~A}\\ {\bf Table~A-Annual~TEDE~for~Agreement~State~Licensees}\\ 2010 \end{tabular}$

| | | | Nun | nber of | Individua | IIs with \ | Vhole Bo | ody Dose | Number of Individuals with Whole Body Doses in the Ranges (rems) * | anges (I | rems)* | | | | | Total | Average |
|---|------------------|-------------------------|--------------------|---------|-----------|------------|--------------|----------------------|---|----------|--------|-------|-------|------------------------------|------------------------------|------------------------------------|------------------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- 1.00 2 | 1.00- 2.0 2.00 3. | 2.00- 3.00 4.00 | - 4.00- | 5.00- | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Collective TEDE (person-rem) | Meas. TEDE (rem) |
| VETERINARY NON-HUMAN - 02400 | 0 | | | | | | | | | | | | | | | | |
| PHOENIX CENTRAL LAB FOR VET | WNL-0210 | 4 | | | 1 | - | | - | | | _ | - | - | 4 | | • | |
| Total | + | 4 | · | ' | ٠ | ٠ | ٠ | • | | | | | Ì | 4 | | ٠ | |
| MANUFACTURING AND DISTRIBUTION – NUCLEAR PHARMACIES – 02500 | ITION – NUCLEAR | PHARIMACIE | S-02500 | | | | | | | | | | | | | | |
| CARDINAL HEALTH - AK | 0707RA907-912 | 1 | 5 | | | | | 1 | , | | | ľ | | 5 | 5 | 0.125 | 0.025 |
| CARDINAL HEALTH - CT | 00163 | 4 | 9 | 80 | က | | • | 1 | | | | ' | ' | 55 | 51 | 3.504 | 0.069 |
| CARDINAL HEALTH - IN | R0358-45 | 19 | 23 | , | 1 | • | • | , | | | | | , | 42 | 23 | 0.482 | 0.021 |
| CARDINAL HEALTH - MI | 1549-4 | 16 | 27 | 4 | , | , | , | | | | , | | 1 | 47 | 31 | 1.123 | 0.036 |
| CARDINAL HEALTH - MO | 2840 | 1 | 32 | 7 | - | 8 | - | | , | | , | | 1 | 28 | 47 | 5.496 | 0.117 |
| CARDINAL HEALTH - PA | PA-0892 | 15 | 7 | - | i | 1 | 1 | 1 | , | | , | | ' | 27 | 12 | 0.539 | 0.045 |
| CARDINAL HEALTH - PA | PA-0893 | က | - | _ | ſ. | 1 | 1 | 1 | , | | , | | 1 | 5 | 2 | 0.197 | 0.099 |
| CARDINAL HEALTH - SD | 47111 | • | 7 | 3 | 1 | • | | | | | , | _ | , | 14 | 14 | 1.222 | 0.087 |
| GE HEALTHCARE | PA-0515 | 17 | 21 | 7 | 7 | 1 | , | 1 | | | | | , | 52 | 35 | 4.249 | 0.121 |
| GE HEALTHCARE - ANAHEIM | 4810-30 | 1 | 7 | 2 | 1 | • | | , | , | | , | _ | , | 20 | တ | 0.367 | 0.041 |
| GE HEALTHCARE - SACRAMENTO | 4809-34 | 20 | თ | ~ | 1 | • | ٠ | | | | , | _ | | 30 | 10 | 0.459 | 0.046 |
| GE HEALTHCARE - SAN DIEGO | 5796-37 | 13 | 4 | • | 1 | 1 | , | 1 | , | | , | _ | 1 | 17 | 4 | 0.155 | 0.039 |
| GE HEALTHCARE - SAN JOSE | 4811-43 | o | 7 | 4 | ~ | 1 | , | 1 | | | , | | , | 21 | 12 | 1.225 | 0.102 |
| GE HEALTHCARE - VAN NUYS | 5143-19 | 11 | 9 | _ | 1 | 1 | , | , | , | | | _ | , | 18 | 7 | 0.280 | 0.040 |
| IBA MOLECULAR NORTH AMERICA, INC. | CA-7131-43 | 80 | 9 | 13 | 5 | - | 2 | - | - | _ | , | | 1 | 38 | 30 | 13.684 | 0.456 |
| MALLINCKRODT, INC. | PA-0842 | 4 | 2 | 2 | - | 1 | , | 1 | , | | , | _ | 1 | 6 | 2 | 0.636 | 0.127 |
| PANTEX, DIVISION OF BIOANALYSIS, INC. | CA-2402-19 | 4 | 2 | 1 | ī | 1 | , | 1 | , | , | , | | , | 9 | 2 | 0.024 | 0.012 |
| TRIAD ISOTOPES, INC. | PA-0418 | 10 | 4 | 1 | ī | • | | 1 | , | | | | , | 14 | 4 | 0.134 | 0.034 |
| TRIAD ISOTOPES, INC. | PA-0479 | 5 | 10 | 8 | 2 | 1 | - | - | - | - | - | | - | 25 | 20 | 2.382 | 0.119 |
| Total | 19 | 180 | 231 | 62 | 20 | 4 | 3 | 1 | 1 | 1 | - | | | 503 | 323 | 36.283 | 0.112 |
| WELL LOGGING BYPRODUCT AND/OR SNM SEALED SO | D/OR SNM SEALE | D SOURCES | URCES ONLY - 03111 | 1111 | | | | | | | | | | | | | |
| ISOTOPE PRODUCTS LABS | 1509-19 | 12 | 18 | 10 | 2 | 9 | 8 | 6 | , | | | | - | 89 | 26 | 27.050 | 0.483 |
| Total | 1 | 12 | 18 | 10 | 2 | 9 | 8 | 6 | | - | - | | | 89 | 26 | 27.050 | 0.483 |
| MEASURING SYSTEMS PORTABLE GAUGES - 03121 | .E GAUGES - 0312 | 1 | | | | | | | | | | | | | | | |
| PROFESSIONAL SERVICE INDUSTRIES, INC. | PA-0281 | 4 | в | 3 | ო | - | | - | , | | | Ċ | 1 | 15 | 11 | 3.900 | 0.355 |
| Total | 1 | 4 | 3 | 3 | 3 | 1 | ٠ | 1 | | | | | | 15 | 11 | 3.900 | 0.355 |
| | | | | | | | | | | | | | | | | | |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2010 (continued)

| | | | N | nher of | ndividus | ls with W | /hole Bo | Number of Individuals with Whole Body Doses in the Banges (rems)* | in the R | I) Sebue | ems)* | | | | | | |
|--|-----------------|-------------------------|--------------------|---------|----------|------------|-------------|---|--------------------|-----------|---------|-------|-------|------------------------------|------------------------------|--------------------|------------------------|
| | | | | | | - | | ay boses | | aliges (i | (cilis) | | | | | Total | Average |
| PROGRAM CODE - | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- 0.75 | 0.75- 1.0 | 1.00- 2.00- |)- 3.00- 0 4.00 | 4.00- | 5.00- | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Collective TEDE | Meas. TEDE (rem) |
| MANUFACTURING AND DISTRIBUTION – OTHER - 03214 | ON - OTHER - 03 | | | ĺ | | | • | - | • | - | | | | | | | |
| HOCHIKI AMERICA CORPORATION 20 | 2090-30 | 20 | • | | • | | | 1 | , | | į | _ | | 20 | | • | • |
| J. L. SHEPHERD AND ASSOCIATES CA | CA 1777-19 | 17 | 3 | • | 4 | 1 | 1 | 1 | - | Ċ | | | 1 | 27 | 10 | 4.709 | 0.471 |
| Total 2 | | 37 | 3 | • | 4 | 1 | 1 | 1 | | | | | | 47 | 10 | 4.709 | 0.471 |
| INSTRUMENT CALIBRATION SERVICE ONLY - SOURCE > | E ONLY - SOUR | | 100 CURIES - 03222 | 3222 | | | | | | | | | | | | | |
| EXELON POWERLABS | PA-1017 | 35 | • | 1 | , | 1 | , | -1 | | | | | • | 35 | | | |
| Total 1 | | 35 | · | • | ٠ | • | | • | | Ċ | | | | 35 | | | |
| OTHER SERVICES - 03225 | | | | | | | | | | | | | | | | | |
| HYSPAN PRECISION PRODUCTS, INC. 70 | 7010-37 | • | - | - | • | 1 | , | T | , | Ċ | | _ | 1 | 2 | 2 | 0.247 | 0.124 |
| Total 1 | | | - | - | | | | | | | | | | 2 | 2 | 0.247 | 0.124 |
| WASTE DISPOSAL SERVICE PROCESSING AND/OR REPA | SSING AND/OR | REPACKAGI | CKAGING - 03234 | 4 | | | | | | | | | | | | | |
| ENVIRONMENTAL MANAGEMENT & 35 CONTROLS | 3546-50 | • | - | | | - | | | - | · | | · | 1 | 3 | 3 | 2.681 | 0.894 |
| Total 1 | | | - | ٠ | | - | | | - | | | | | 3 | 3 | 2.681 | 0.894 |
| INDUSTRIAL RADIOGRAPHY – FIXED LOCATION – 03310 | O LOCATION - 0 | 3310 | | | | | | | | | | | | | | | |
| SONGS - RADIOGRAPHY GROUP | CA-5244-30 | 4 | Θ | • | 1 | 1 | , | 1 | | | | | 1 | 10 | 9 | 0.083 | 0.014 |
| Total 1 | | 4 | 9 | • | ٠ | | | • | | ľ | | | | 10 | 9 | 0.083 | 0.014 |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – 0. | ORARY JOB SIT | E-03320 | | | | | | | | | | | | | | | |
| ADVEX CORPORATION 65 | 650-254-1 | | 2 | - | - | 1 | , | - 1 | 1 | | | | 1 | 4 | 4 | 0.606 | 0.152 |
| ALARON CORPORATION PA | PA-0678 | 6 | 74 | 12 | - | 1 | , | 1 | 1 | | | | 1 | 96 | 87 | 3.890 | 0.045 |
| ALPHA-OMEGA SERVICES, INC. 39 | 3925-19 | 13 | Θ | 4 | 2 | • | , | | | Ċ | | _ | 1 | 25 | 12 | 1.566 | 0.131 |
| AUTOMATION AND CONTROL TECHNOLOGY 03214250001 | 3214250001 | 2 | Ξ | 4 | • | 1 | , | , | , | · | | Ţ, | ì | 17 | 15 | 0.740 | 0.049 |
| BAKER INSPECTION GROUP | OH-0332077 | - | 7 | - | ~ | | - | - | | | | | 1 | 12 | 1 | 3.167 | 0.288 |
| BRAUN INTERTEC CORPORATION 10 | 1082-103-27 | 3 | 12 | က | œ | 5 | 4 | 10 | _ | | | • | 1 | 46 | 43 | 27.919 | 0.649 |
| CODE INSPECTION & TESTING CO. PA | PA-1415 | _ | • | 2 | - | 2 | , | 1 | , | | | _ | 1 | 9 | 5 | 1.718 | 0.344 |
| CONSTRUCTION MATERIALS TESTING, INC. | 70-6620 | е | က | | - | | , | | 1 | | | | 1 | 7 | 4 | 0.316 | 0.079 |
| CTL - ASTROTECH DIVISION PA | PA-0430 | _ | 12 | _ | - | 1 | , | - 1 | , | | | Ċ | • | 15 | 14 | 0.739 | 0.053 |
| DOMINION NDT SERVICES, INC. 04 | 041-527-1 | • | 2 | 2 | 2 | | , | | , | · | | Ċ | 1 | 9 | 9 | 1.069 | 0.178 |
| EDGE INSPECTION GROUP, INC. | CA-7214-48 | 9 | ω | 2 | 2 | - | 1 | - | 1 | | | _ | 1 | 23 | 17 | 4.271 | 0.251 |
| EG&G TECHNICAL SERVICES, INC. | EGG-4077-1 | 22 | 2 | • | • | 1 | , | 1 | , | | | _ | 1 | 24 | 2 | 0.100 | 0.050 |
| ENGINEERING & INSPECTIONS, INC. PA | PA-1080 | • | ' | 4 | - | - | 2 | 4 | 1 | · | | | 1 | 12 | 12 | 9.861 | 0.822 |
| INSPECTION TESTING IND RADIOGRAPHY OPS CA | CA-5903-37 | 16 | 9 | 1 | • | | , | | | Ċ | | | | 22 | 9 | 0.093 | 0.016 |
| INTERNATIONAL ENERGY SERVICES, CO. CA | CA-6571-19 | 26 | 17 | 10 | 17 | က | 4 | - | , | | | | 1 | 78 | 52 | 15.851 | 0.305 |
| INTERNATIONAL INSPECTION, INC. 50 | 5046-19 | 7 | က | - | 1 | - | , | 1 | , | | | | 1 | 12 | 5 | 1.106 | 0.221 |
| MISTRAS GROUP, INC. | CA-4886-48 | 8 | 27 | 0 | 17 | 6 | 89 | 9 | - | | | ľ | 1 | 85 | 77 | 31.241 | 0.406 |

APPENDIX A
Table A - Annual TEDE for Agreement State Licensees 2010 (continued)

| | | | Nur | nber of | Individu | Number of Individuals with Whole Body Doses in the Ranges (rems) [⋆] | Whole | Body Do | ses in t | he Rang | es (rem | *(s | | | | | Total | Victoria |
|---|----------------|-------------------------|----------------|---------|----------|---|-------|---------|----------|---------|---------|-------|-------|-------|------------------------------|------------------------------|------------------------------------|------------|
| PROGRAM CODE - LICENSEE NAME | LICENSE# | No Meas. Exposure | Meas. <0.10 | 0.10- | 0.25- | 0.50- | 0.75- | 1.00- | 2.00- | 3.00- | 4.00- | 5.00- | 6.00- | >12.0 | Total Number Monitored | Number with Meas. Dose | Collective TEDE (person-rem) | Meas. TEDE |
| INDUSTRIAL RADIOGRAPHY – TEMPORARY JOB SITE – 03320 | MPORARY JOB SI | TE - 03320 | | | | l | l | l | i | | i | i | | | | | | |
| MISTRAS GROUP, INC. | PA-1138 | 4 | 16 | o | _ | 4 | 4 | თ | | , | • | , | | , | 53 | 49 | 23.793 | 0.486 |
| NAASCO | CA-0684-37 | , | 7 | , | ' | 1 | • | ' | | | • | 1 | , | 1 | 7 | 7 | 0.084 | 0.012 |
| NDT LABORATORIES, INC. | 1651-43 | 4 | , | 2 | ~ | , | | | * | 1 | • | 1 | • | 1 | 7 | က | 0.546 | 0.182 |
| PRECISION CUSTOM COMPONENTS | PA-1042 | 10 | 0 | 1 | • | 1 | • | , | • | • | , | 1 | • | 1 | 19 | O | 0.021 | 0.002 |
| QUALITY INSPECTION SERVICES, INC. | 4196-1 | , | က | 2 | ' | 1 | • | , | | , | • | 1 | • | 1 | 5 | 2 | 0.452 | 060.0 |
| QUALITY INSPECTION SERVICES, INC. | 4196-2 | • | 2 | - | | ~ | - | , | | • | • | 1 | • | 1 | 5 | 5 | 1.755 | 0.351 |
| QUALITY INSPECTION SERVICES, INC. | C3267 | • | 5 | , | ~ | ~ | , | | 1 | 1 | • | 1 | • | 1 | 7 | 7 | 1.096 | 0.157 |
| QUALITY INSPECTION SERVICES, INC. | IR-074-01 | • | 9 | - | 4 | 1 | 1 | 1 | | | 1 | 1 | • | 1 | 1 | 1 | 1.864 | 0.169 |
| QUALITY INSPECTION SERVICES, INC. | LO-6219 | - | က | 3 | 2 | 1 | • | _ | • | • | • | 1 | • | 1 | 13 | 12 | 3.607 | 0.301 |
| QUALITY INSPECTION SERVICES, INC. | NYS C2514 | - | 7 | 2 | 2 | 7 | _ | 5 | - | • | • | 1 | • | 1 | 26 | 25 | 15.537 | 0.621 |
| QUALITY INSPECTION SERVICES, INC. | NYS C2700 | _ | 2 | 3 | က | 1 | • | - | • | • | • | 1 | • | 1 | 10 | O | 3.024 | 0.336 |
| QUALITY INSPECTION SERVICES, INC. | NYS DOH C2505 | 1 | 5 | ~ | τ- | 9 | • | - | • | 1 | • | 1 | • | 1 | 14 | 14 | 5.351 | 0.382 |
| QUALITY INSPECTION SERVICES, INC. | PA-1350 | 1 | 2 | 2 | 2 | 1 | • | 1 | • | 1 | 1 | 1 | 1 | 1 | 9 | 9 | 0.885 | 0.148 |
| SPX HEAT TRANSFER, INC. | OK-13735 | • | 2 | , | ' | | 1 | • | , | 1 | , | • | • | • | 2 | 2 | 0.121 | 0.061 |
| STORK MATERIALS TESTING & INSPECTION CA-1880-19 | CA-1880-19 | ī | 1 | _ | n | • | 2 | • | • | 1 | • | • | • | • | 9 | 9 | 2.872 | 0.479 |
| SUBSURFACE IMAGING, INC. | 7449-19 | 2 | ю | n | 4 | - | 2 | | ' | | , | • | ' | | 15 | 13 | 4.202 | 0.323 |
| TC INSPECTION, INC. | 5299-07 | 32 | 24 | 7 | 21 | 7 | 2 | е | • | _ | • | 1 | • | 1 | 100 | 89 | 26.004 | 0.382 |
| TESTING ENGINEERS, INC. | 1898-01 | 1 | - | 2 | က | 1 | • | 1 | | 1 | • | 1 | • | 1 | 9 | 9 | 1.335 | 0.223 |
| THREE RIVERS GAMMA SERVICES | PA-1165 | 1 | 1 | 1 | | | • | 2 | 1 | 1 | • | 1 | 1 | 1 | 2 | 2 | 3.117 | 1.559 |
| VALLEY INDUSTRIAL X-RAY & INSPECTION | CA-4182-15 | 41 | 35 | 24 | 24 | 20 | 20 | 30 | 5 | 1 | 1 | • | • | 1 | 207 | 166 | 114.479 | 0.690 |
| VALLEY INSPECTION SERVICE, INC. | PA-1186 | , | - | 1 | 2 | | - | _ | - | _ | , | • | • | , | 7 | 7 | 8.723 | 1.246 |
| WESTERN INDUSTRIAL X-RAY | 4424-48 | • | 2 | - | • | _ | 4 | _ | | • | • | 1 | • | 1 | O | တ | 5.387 | 0.599 |
| WESTEX COMPANY | 5324-56 | 3 | 2 | - | • | 2 | • | • | | • | • | 1 | • | 1 | 8 | 5 | 1.464 | 0.293 |
| Total | 40 | 217 | 329 | 121 | 141 | 72 | 29 | 11 | 17 | 2 | ٠ | • | ٠ | • | 1,035 | 818 | 329.972 | 0.403 |