SIERRA RADIATION
Dosimetry Service

Occupational Radiation Exposure Report

Account Name	Account Number	Published Date
XYZ Dentistry, Inc.	1185	6/15/2015

Wearer ID	Process Number	Wearer	ID	DOB	Gender	Badge Type	Area Monitored	Wear Period	Current (mrem)					Year to Date			Lifetime
									Deep	Eye	Shallow	Neutron	Notes	Deep	Eye	Shallow	
11956	-999999	Jefferson, Thomas	SSN-1248	1/1/1901	M	TLD	WB-CH	1/1/2015 - 3/31/2015	12	12	12	*		12	12	12	149
3348	-999999	Smith, John	SSN-542-15-8956	10/15/1974	M	TLD	WB-CH	1/1/2015 - 3/31/2015	21	21	21	*		21	21	21	324

Report To

NVLAP®

Accredited by the "National Institute of Standards and Technology through NVLAP for the specific scope of accreditation under lab code 100555-0"

Sierra Radiation Dosimetry Service
7301 N FM 620
STE 155-347
AUSTIN, TX 78726

SIERRA RADIATION
Dosimetry Service

Occupational Dose Report

Account Name	Account Number	Published Date
XYZ Dentistry, Inc.	1185	6/15/2015

Column Definitions

Wearer ID	Unique individual wearer numbers assigned within an account. All exposure records are kept by wearer number
Process Number	Specific reference group in which the badges were processed.
Wearer Name	Wearers Full Name
Identification Number	Indicates individual's identification type and identification number.
DOB	Individual's birth date.
Gender	M=Male; F=Female
Badge Type	Type of badge used for determiniation of dose
Body Region	General region of the body to be monitored if dosimeter is assigned to personnel. This column also reflects non-personal use of a dosimeter
Body Part	Specific body part to be monitored if dosimeter is assigned to personnel. This field is optional and is provided to help differentiate between multiple badges worn on the same body region
Service	Length of assigned monitoring period
Start Date	First day of the assigned monitoring period for the dosimeter
End Date	Last day of the assigned monitoring period for the dosimeter evaluated. If not designated by customer, last day will be last calendar date of the monitoring period.
Current Deep	Deep Dose Equivalent which applies to external whole body exposure and is the dose equivalent at a tissue depth of 1 centimeter (1000 mg/cm²). Neutron dose is included if present.
Current Eye	Eye Dose Equivalent which applies to the external exposure to the lens of the eye and is the dose equivalent at a tissue depth of 0.3 centimeters (300 mg/cm²). It includes dose in millirem for beta particles and photons. Neutron dose is included if present.
Current Shallow	Shallow Dose Equivalent which applies to the external exposure of the skin or an extremity and is the dose equivalent at a tissue depth of 0.007 centimeters (7 mg/cm²) averaged over an area of 1 square centimeter. It includes dose in millirem for beta particles and photons. Extremity doses are reported in this column based on 662 keV photons unless other energy or radiation source information is available. Neutron dose is included if present.
Current Neutron	Neutron dose stated is part of reported deep, eye and shallow in current exposure and is included in Current Deep, Current Eye, and Current Neutron columns. Non-personnel neutron badges are calibrated for response of dosimeter on a phantom.
Process Notes	Letters shown in this column indicated an unusual occurrence which may limit or preclude an exposure evaluation. Continued or frequent entries in this column require further investigation and elimination of cause if possible. See Explanation of Code Key.
Year to Date Deep	Deep: Cumulative year-to-date total of Current Deep for all non-extremity
Year to Date Eye	Eye: Cumulative year-to-date total of Current Eye for all whole body and eye dosimeters reported in process year.
Year To Date Shallow	Shallow: Cumulative year-to-date total of Current Eye for all non-extremity dosimeters reported in process year.
LIfetime	Cumulative lifetime total of Current Deep/Shallow for all dosimeters processed plus previous history and adjustments.

Notes

Important - Control Badge
The control badge should be kept in a low background location at your facility, never in the room where your source of radiation is located. Also, as the control badge is used in the calculation of dose, it should never be worn or re-assigned.

MINIMUM EXPOSURE REPORTED: All dosimeters have a minimum threshold below which an actual exposure cannot be measured with statistical accuracy. ALL EXPOSURES BELOW THIS MINIMUM WILL BE REPORTED AS AN ASTERISK(*) IN Current Deep, Eye, Shallow, and Neutron. These minimal exposures will not be carried forward in the cumulative data. Refer to specification sheet for minimum reportable doses.

DOSE EQUIVALENT: The product of the absorbed dose in tissue, quality factor, and all other necessary modifying factors at the location of interest.

EXTERNAL DOSE: That portion of the dose equivalent received from radiation sources outside the body.

OCCUPATIONAL DOSE: Dose received by an individual in a restricted area or in the course of employment in which the individual's assigned duties involve exposure to radiation and to radioactive material from licensed and unlicensed sources of radiation whether in the possession of the licensee or other person. Occupational dose does not include dose received from background radiation, such as a patient from medical practices, from voluntary participation in medical research programs, or as a member of the general public.

EXTREMITY: Hand, elbow, arm below the elbow, foot, knee or leg below the knee.

WHOLE BODY: Head, trunk, arms above the elbow, legs above the knee.

TECHNICAL DATA: The processing facility performs calibrations of its dosimetry systems that are traceable to NIST and is accredited by the National Institute of Standards and Technology through NVLAP.

RADIATION TEST SOURCES
The processing facility has demonstrated satisfactory performance in accordance with the most recent version of ANSI N13.11 "Criteria for Testing Personnel Dosimetry Performance." DOE/EH-0027: "DOE" standard for the Performance Testing of Personnel Dosimetry System

MONITORED REGION

WB & EW = Whole Body
EYE = Lens of Eye
URE = Upper Right Extremity
ULE = Upper Left Extremity
LRE = Lower Right Extremity
LLE = Lower Left Extremity
NPU = Non Personnel Use
EQ = Equipment
ARE = Area
UNK = Unknown
NSE Non Specific Extremity

MONITORED BODY PART

Blank = Not Identified
HD = Head
CL= Collar
CH = Chest
TR = Torso
WR = Wrist
FN = Finger

The annual occupational whole body dose limit (DDE) is 5000 millirem. The annual eye dose limit (LDE) is 15000 millirem. The annual shallow dose limit (SDE) is 50000 millirem. For information on the dose limits and definitions of terms used in this report, the client is referred to Part 20 of Title 10 of the Code of Federal Regulations (10CFR20). Limits for members of the public, minors and declared pregnant workers are different than those listed above.

This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Mirion Technologies may be reached at 2652 McGaw Ave, Ivine, CA 92614. 800-251-3331