

PART I - LICENSE, INSPECTION, INCIDENT/EVENT, AND ENFORCEMENT HISTORY

1. AMENDMENTS AND PROGRAM CHANGES:

<u>Amendment No.</u>	<u>Date</u>	<u>Subject</u>
Amendment #19	12/10/2014	License Renewal
Amendment #18	06/16/2014	Change of Authorized Users

2. INSPECTION AND ENFORCEMENT HISTORY:

One violation was identified during the last inspection on August 26, 2011. The violation pertained to Condition 17, of NRC Materials License No. 24-12366-01 involving licensee failure to perform annual radiation safety training.

3. INCIDENT/EVENT HISTORY:

No licensee events were reported since the last NRC inspection. No open Nuclear Materials Event Database (NMED) items were pending for this licensee.

PART II - INSPECTION DOCUMENTATION

1. ORGANIZATION AND SCOPE OF PROGRAM:

The licensee was a research laboratory that analyzed the abrasiveness of toothpaste. The licensee acquired teeth that had been extracted by dental surgeons and irradiated at the University of Missouri to activate stable phosphorus to phosphorus-32 (P-32). The licensee installed the irradiated teeth in a custom device to brush the teeth in a toothpaste slurry, and it analyzed aliquots of control and experimental slurries for P-32. All waste was held for decay in storage.

2. SCOPE OF INSPECTION:

Inspection Procedures Used: 87126

Focus Areas Evaluated: Sections 03.01 through 03.07

The inspector toured the facility and reviewed selected documents. Experimental procedures were not being conducted at the time of the inspection. Interviews with and demonstrations by the RSO revealed an adequate level of understanding of emergency and material handling procedures and techniques. The RSO demonstrated how packages containing licensed material were surveyed and wipe tested upon receipt. Licensed material including material held for decay in storage was adequately secured and not readily accessible to members of the general public.

3. **INDEPENDENT AND CONFIRMATORY MEASUREMENTS:**

The NRC inspector conducted independent radiation surveys of the licensee's work area. No unusual radiation levels were detected and radiation levels were within regulatory limits.

4. **VIOLATIONS, NON-CITED VIOLATIONS, AND OTHER SAFETY ISSUES:**

Condition 17 of NRC License No. 24-12366-01 states, in part, that the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the application dated June 26, 2014. Item 8 of the application dated June 26, 2014, states, in part, "The annual radiation training conducted by the RSO includes, Title 10 CFR Parts 19 and 20."

Contrary to the above, the licensee did not conduct annual radiation safety training. Specifically, the licensee failed to conduct any radiation safety training from January 2015 through July 5, 2016, a period that exceeded the annual requirement.

The inspector observed that the RSO had difficulty with oversight of the radiation protection program. The aforementioned is repeat violation based on the previous inspection. The RSO indicated that the workload was abnormally busy during 2015 and he forgot to perform the required annual radiation protection program training.

5. **PERSONNEL CONTACTED:**

* # Ross Larson

Use the following identification symbols:

present at the entrance meeting

* Individuals present at the exit meeting

-END-