NRC FORM 591M PART 1
(10-2003)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:	2. NRC/REGIONAL OFFICE
Missouri Analytical Laboratories, Inc. 1820 Delmar Boulevard St. Louis, MO 63103 REPORT 2006-001	REGION III US NUCLEAR REGULATORY COMMISSION 2443 WARRENVILLE ROAD, SUITE 210 LISLE, ILLINOIS 60532

3. DOCKET NUMBER(S)	4. LICENSEE NUMBER(S)	5. DATE(S) OF INSPECTION
030-05138	24-12366-01	September 18, 2006

LICENSEE:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

☒ 1. Based on the inspection findings, no violations were identified.

☐ 2. Previous violation(s) closed.

☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied.

_____ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(s):

☐ 4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.

(Violations and Corrective Actions)

Licensee's Statement of Corrective Actions for Item 4, above.

I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

Title	Printed Name	Signature	Date
LICENSEE'S REPRESENTATIVE			
NRC INSPECTOR	Geoffrey M. Warren	Geoffrey M. Warren	9/18/06

NRC FORM 591M PART 3
(10-2003)
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

Docket File Information

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE	2. NRC/REGIONAL OFFICE
Missouri Analytical Laboratories, Inc. REPORT NUMBER(S) 2006-001	**Region III**

3. DOCKET NUMBER(S)	4. LICENSE NUMBER(S)	5. DATE(S) OF INSPECTION
030-05138	24-12366-01	September 18, 2006

6. INSPECTION PROCEDURES USED	7. INSPECTION FOCUS AREAS
87126	03.01 - 03.07

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S)	2. PRIORITY	3. LICENSEE CONTACT	4. TELEPHONE NUMBER
03620	5	Ross Larson, RSO	314-241-8772

[X] Main Office Inspection — Next Inspection Date: **Sept. 2011**

[ ] Field Office _____

[ ] Temporary Job Site _____

PROGRAM SCOPE

The licensee was a laboratory located in St. Louis, Missouri, which, among other activities, analyzed the abrasiveness of toothpaste. Licensee personnel acquired teeth which had been extracted by dental surgeons, had the teeth irradiated at a commercial facility to activate stable phosphorus to phosphorus-32 (P-32), used a device to brush the teeth in a toothpaste slurry, and analyzed slurry samples for P-32. These procedures were performed about 2-3 times weekly. The radiation staff consisted of the Radiation Safety Officer. One authorized user was routinely involved in the use of licensed material. All waste was stored for decay in storage.

Performance Observations

Licensee staff demonstrated package receipt (survey and wipes), laboratory procedures using licensed material, survey meter checks, and area surveys, and explained procedures for the acquisition and disposal of licensed materials. The inspector identified no issues with these procedures. Interviews with licensee staff indicated sufficient knowledge of radiation safety concepts and procedures. Confirmatory surveys indicated radiation levels consistent with licensee survey records and survey meter readings, and appropriate for area postings.