

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:

Basilico Engineering, Inc.  
3946 Lindell Boulevard, Suite 110  
Saint Louis, MO 63108

2. NRC/REGIONAL OFFICE

Region III  
U. S. Nuclear Regulatory Commission  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

REPORT NUMBER(S) 2019001

3. DOCKET NUMBER(S)

030-37746

4. LICENSE NUMBER(S)

24-32693-01

5. DATE(S) OF INSPECTION

May 22, 2019

**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:

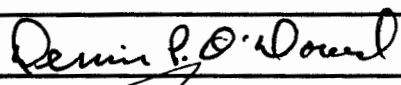
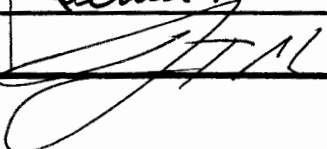
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, to exercise discretion, were satisfied.

Non-cited violation(s) were discussed involving the following requirement(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 in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.  
(Violations and Corrective Actions)

**Statement of Corrective Actions**

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	Dennis P. O'Dowd		05/22/19
BRANCH CHIEF	Aaron T. McCraw		6/14/19

**Docket File Information**  
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3. DOCKET NUMBER(S)  030-37746	4. LICENSE NUMBER(S)  24-32693-01	5. DATE(S) OF INSPECTION  May 22, 2019	
6. INSPECTION PROCEDURES USED  87124	7. INSPECTION FOCUS AREAS  03.01-03.07		

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  03121	2. PRIORITY  5	3. LICENSEE CONTACT  Lawrence I. Nwachukwu, RSO	4. TELEPHONE NUMBER  (314) 454-0222
<input checked="" type="checkbox"/> Main Office Inspection      Next Inspection Date: 05/22/2024			
<input type="checkbox"/> Field Office Inspection _____			
<input type="checkbox"/> Temporary Job Site Inspection _____			

**PROGRAM SCOPE**

This was a routine, unannounced inspection of an engineering company authorized to possess Cs-137 and Am-241:Be in Humboldt portable moisture-density gauging devices at its materials testing and analysis laboratory in St. Louis, Missouri (located a block away from the licensee's administrative office), and at temporary job sites anywhere in the United States where the NRC maintains regulatory jurisdiction. At the time of the inspection, the licensee possessed two gauges (the license authorized the possession and use of up to five gauges). The gauges were not stored at temporary job site or at an employee's residence overnight.

**Performance Observations**

The inspector toured the licensee's gauge storage facility and found that the gauges were properly posted and adequately secured by at least two independent physical controls. Independent radiation surveys of unrestricted areas found no readings in excess of public dose limits. The gauges were not in use at the time of inspection. Gauges were tracked by utilization logs posted near the gauge storage area. An authorized user satisfactorily described and demonstrated to the inspector the licensee's methods for transporting and using the gauge, including means of using two tangible barriers for securing the gauge when unattended and stored at temporary job sites. Through these and additional discussions, the inspector found that licensee personnel were knowledgeable of radiation protection principles and licensee procedures. In addition, the inspector reviewed pertinent records, and reviewed and discussed with the RSO: (1) DOT requirements and shipping papers; (2) HAZMAT refresher training; (3) dosimetry; (4) leak tests and physical inventories; (5) survey meter availability; (6) emergency procedures and reporting requirements; and (7) annual program reviews.

No violations of NRC requirements were identified as a result of this inspection.