

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Air Zoo Aerospace and Science Museum
6151 Portage Road
Portage, Michigan, 49002

REPORT NUMBER(S) 2021-001

2. NRC/REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

030-39139

4. LICENSE NUMBER(S)

GL under 10 CFR 31.5

5. DATE(S) OF INSPECTION

4/15/21

06/14/2021

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	DEREK MENCHINGER		6-30-21
NRC INSPECTOR	Bill C. Lin		6/29/2021
BRANCH CHIEF	David Hills		6/29/2021



Materials Inspection Record

1. Licensee Name: AirZoo Aerospace and Science Museum		2. Docket Number(s): 030-39139		3. License Number(s) GL under 10 CFR 31.5	
4. Report Number(s): 2021001			5. Date(s) of Inspection: 4/15/21-6/14/21		
6. Inspector(s): Lin		7. Program Code(s):		8. Priority:	9. Inspection Guidance Used: TI 2800/043 Rev 2
10. Licensee Contact Name(s): Derek S. Menchinger		11. Licensee E-mail Address: dmenchinger@airzoo.org		12. Licensee Telephone Number(s): 269-350-2834	
13. Inspection Type: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input type="checkbox"/> Unannounced		14. Locations Inspected: <input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input checked="" type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): N/A <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change	

16. Scope and Observations:

A couple who began collecting World War II era aircraft in 1959, founded the Kalamazoo Aviation History Museum in 1979 which is the present day Air Zoo Aerospace and Science Museum. During December 2018, NRC and its contractor Oak Ridge Associated University (ORAU) performed a site visit of the museum. At that visit, ORAU performed a survey of Air Zoo museum's Main and East Campus facility. The inspection team from ORAU estimated that there were over 100 discrete radium sources on site. Title 10 Code of Federal Regulations (CFR) 31.12 requires a General License when 1 to 100 discrete radium sources of radium are present. Due to the fact that Air Zoo had more than 100 discrete radium sources in location of the facility, the site had committed to the NRC to get below the 100 discrete radium sources to meet the General License provision.

On April 15, 2021, Air Zoo officials had hired, a licensed contractor to dispose of all but five individual discrete radium sources stored in the collection area and six airplanes within the museum collection that had installed radium dials. An NRC inspector observed and reviewed the disposal records and interviewed Air Zoo officials and contractor personnel. The facility and the hired contractor had implemented applicable radiation safety protocols and taken the appropriate surveys for transportation and safe packing of the discrete radium sources. Based on the reviewed records and interviews with the facility and contractor personnel, Air Zoo facility now met the Regulatory Requirement of Title 10 CFR 31.12 for a General License.