

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:

Allegan General Hospital  
555 Linn Street  
Allegan, MI 49010

REPORT NUMBER(S) 2017001

2. NRC/REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

030-14003

4. LICENSE NUMBER(S)

21-18659-01

5. DATE(S) OF INSPECTION

January 20, 2017

**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:


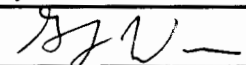
- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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	Luis Nieves Folch		2/2/17
BRANCH CHIEF	Aaron T. McCraw	 for ATM	2/2/17

**Docket File Information**

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:  Allegan General Hospital 555 Linn Street Allegan, MI 49010  REPORT NUMBER(S) 2017001	2. NRC/REGIONAL OFFICE  Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
---	---

3. DOCKET NUMBER(S) 030-14003	4. LICENSE NUMBER(S) 21-18659-01	5. DATE(S) OF INSPECTION January 20, 2017
----------------------------------	-------------------------------------	--

6. INSPECTION PROCEDURES USED 87131	7. INSPECTION FOCUS AREAS 03.01-03.07
--	--

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S) 02120	2. PRIORITY 3	3. LICENSEE CONTACT Philip J. Harterink, MD - RSO	4. TELEPHONE NUMBER (269) 673-8424
-----------------------------	------------------	--	---------------------------------------

Main Office Inspection                      Next Inspection Date: January 20, 2020

Field Office Inspection \_\_\_\_\_

Temporary Job Site Inspection \_\_\_\_\_

**PROGRAM SCOPE**

This was an unannounced routine inspection of a community hospital in Allegan, Michigan with authorization to use byproduct material under 10 CFR 35.100, 35.200 and 35.300. The licensee was also authorized to store two disused Gd-153 line sources under 35.500 with intent to dispose. The licensee had two full-time nuclear medicine technologists on staff to perform approximately 13 diagnostic administrations per week, Mondays through Fridays, as well as Saturday mornings. The licensee conducted a variety of diagnostic procedures using unit doses of Tc-99m and occasional Xe-133 for ventilation studies. The lab performed one therapeutic administration since the last inspection using I-131 in capsule form. The licensee retained the services of a medical physics consultant to perform quarterly audits, instrument calibrations, inventories, leak tests and ventilation evaluations.

**Performance Observations**

The inspector toured the nuclear medicine department to evaluate the licensee's measures for materials security, hazard communication and exposure control. The inspector observed the preparation and administration of one bone scan and one gastric emptying study, all using Tc-99m. The inspector conducted independent and confirmatory surveys and found no exposures to members of public in excess of regulatory limits. The technologists on staff demonstrated implementation of procedures for package receipt, area surveys, spill response, and waste handling. Through these demonstrations and other discussions, the technologists demonstrated adequate knowledge of radiation protection principles, licensee procedures and NRC requirements. The inspector reviewed the licensee's methods and records for the administration of radiopharmaceuticals requiring a written directive. The inspector also reviewed a selection of licensee records for instrument quality control, package receipt, dose administration, area surveys, waste handling, inventories, leak testing, ventilation evaluations, and quarterly audits.

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