



**Gannett Fleming**

*Excellence Delivered **As Promised***

March 9, 2021

Licensing Assistant Section  
Nuclear Materials Safety Branch  
U.S. Nuclear Regulatory Commission, Region 1  
2100 Renaissance Blvd., Suite 100  
King of Prussia, PA 19406-2713

Request for Amendment to License # 37-20647-01

To whom it may concern:

This letter serves as a request to amend our license (#37-20647-01) to eliminate storage locations for our Nuclear Density Gauge.

1800 Congress Street, Fairfield CT 06824 is no longer being used as a storage location for nuclear density gauges. Included are leak test reports of gauges that were stored at the locations.

We also request that the location of our records be moved to our headquarters at 202 Senate Avenue, Camp Hill, PA 17011.

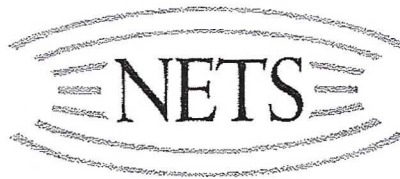
If you have any questions or require further information, please contact George Howell, RSO, at 717-439-5849.

Very truly yours,

GANNETT FLEMING, INC.

Kevin R. Boerner, P.E.  
Vice President

cc: George Howell  
File



## North East Technical Services, Inc

75 Aileron Court, Suite 4

Westminster, MD 21157

1-866-868-2382

Fax 410 751-5091

### RENTAL RETURN

### RADIOACTIVE MATERIAL TRANSFER SHEET

#### DEVICE BEING TRANSFERRED:

GAUGE MODEL 3411 SERIAL NUMBER: 9144

SOURCE SERIAL NUMBERS: Cs-137: 40-6458 Am-241: 47-5614

Survey reading of gauge at destination. (In mrem) Less than 5  
(Conduct survey 1 meter from shipping case)

Last Leak Test Date: 5/27/20

#### TRANSFERRING THE DEVICE FROM:

Company/Entity: Gannett Fleming  
Address: 1800 Congress Street  
Fairfield, CT 06824

Company representative: George Howell, Jr.

Signature

#### TRANSFERRING THE DEVICE TO:

Company: North East Technical Services  
Address: 75 Aileron Ct., Suite 4  
Westminster, MD 21157

Radioactive Materials License Number: MD-13-020-01

Expiration date: 1/31/2024

DATE OF TRANSFER: 9/30/2020

Company representative: Kelli Rill

Signature

*North East Technical Services, Inc is licensed and insured and fully authorized to accept, transfer, sell and service portable nuclear density gauges under radioactive materials license# MD-13-020-01.*

# North East Technical Services, Inc.

## Gauge Calibration Report

Gauge Model: 3411

Serial Number: 9144

Calib. Date: 05/27/2020

Expires: 05/27/2021

Density Std. Cnt: 1407

Moisture Std. Cnt: 526

Bay Number: 1

Block Type	Low	Med	High
Density	1774	2216	2697
S/N	300	301	302
Depth	Density	Calibration	Counts
BS	647	443	309
2	2333	1521	935
4	2371	1427	841
6	1924	1097	584
8	1315	677	363
10	845	378	198
12	489	233	111

**Gauge Constants:**

Depth	A	Bx1000	C	@2000 kg/m3 Repeatability
BS	3.06965	1.19635	-0.08276	11.99
2	9.73686	0.97277	0.11179	5.58
4	16.57122	1.33080	-0.07687	4.82
6	14.54701	1.33252	0.04012	4.88
8	23.05842	1.88405	-0.08600	5.24
10	39.70517	2.46846	-0.07591	5.71
12	10.31138	1.96095	-0.01592	7.83

**Moisture Parameters:**

Block Type	Low	High	E	Fx1000	@240 kg/m3 Repeatability
Density	0	376			
S/N	300	303			
	Moisture	Cal	Counts	Gauge Constants	
	15	241	0.02852	1.14271	5.25

**North East Technical Services, Inc.**  
**Uncertainty**

Gauge Model: 3411

Serial Number: 9144

Calib. Date: 05/27/2020

Expires: 05/27/2021

Density Std. Cnt: 1407

Moisture Std. Cnt: 526

Bay Number: 1

**Gauge Density Estimated Measurement Uncertainty:**

	Low	Med	High
Density	1774	2216	2697
Depth			
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BS	22.96	31.13	44.42
2	14.65	18.08	22.04
4	13.44	17.39	22.76
6	13.58	17.37	22.07
8	13.46	18.77	28.66
10	13.45	20.75	41.05
12	16.30	23.74	37.70

**Gauge Moisture Estimated Measurement Uncertainty: 12.74**

Note: Expanded uncertainties calculated above are for coverage factor K=2, which defines a measurement confidence level of approximately 95%. These values meet the requirement of ASTM D7759 and D6938. The calculations of uncertainty are based on the calibration facility being compliant to ASTM D7013, with potential influences controlled, such as wall effect, background and operator experience.

Gauge moisture measurement uncertainty is calculated at moisture density value of 240 kg/m3 (15 lb/ft3)

## North East Technical Services, Inc.

## Expected Std. Count

Gauge Model: 3411

Serial Number: 9144

Calib. Date: 05/27/2020

Expires: 05/27/2021

Density Std. Cnt: 1407

Moisture Std. Cnt: 526

Bay Number: 1

Date	From	To
May 20	1393	1421
Jun 20	1390	1418
Jul 20	1388	1416
Aug 20	1385	1413
Sep 20	1382	1410
Oct 20	1380	1407
Nov 20	1377	1405
Dec 20	1374	1402
Jan 21	1372	1399
Feb 21	1369	1397
Mar 21	1366	1394
Apr 21	1364	1391
May 21	1361	1389
Jun 21	1359	1386
Jul 21	1356	1383
Aug 21	1353	1381
Sep 21	1351	1378
Oct 21	1348	1375
Nov 21	1345	1373
Dec 21	1343	1370

  
North East Technical Services, Inc.

Calibration Technician

5/27/2020  
Date

# North East Technical Services, Inc.

## Nuclear Gauge Safety Report

Model 3411

Serial# 9144

Date 5/27/2020

### Part I

CONDITION OF GAUGE: ☐ Good  
☒ Normal  
☐ Poor

HANDLE CONDITION: ☒ Normal  
☐ Abused

### Part II

SOURCE ROD WEAR: ☒ None  
☐ Slight  
☐ Medium  
☐ Extreme

SOURCE ROD CRACKS: ☒ None  
☐ Yes (MUST BE REMOVED FROM SERVICE)

### Part III

SLIDING BLOCK POS: ☒ Closed  
☐ Open

REASON FOR OPEN: ☐ Spring  
☐ Excessive Dirt  
☐ Other

### Comments:

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***North East Technical Services, Inc.***

***75 Aileron Ct., Suite 4***

***Westminster, MD 21157***

***Ph: 410.751.5090 Fax: 410.751.5091***

***North East Technical Services, Inc***

***75 Aileron Ct., Suite 4***

***Westminster, MD 21157***

***ATTN:***

***Shipping Address: 75 Aileron Ct., Suite 4***

***Westminster, MD 21157***

## ***LEAK TEST CERTIFICATE***

***MD Materials License # MD-13-020-01***

***This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removeable contamination.***

<b>Gauge Model</b>	<b><i>3411-B</i></b>	<b>Gauge S/N</b>	<b><i>9144</i></b>	<b>Leak Test Date</b>	<b><i>5/27/2020</i></b>
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**Source**

**Reading in microCuries**

***40-6458***

***0.00008826***

***47-5614***

***0.00000***

***Note: 0.005 microCuries (185 Bq) or greater is considered a leaking source. The source(s) tested above may remain in use.***

**Reviewed by:**

*Douglas Sims*

**Date:**

***MAY 27 2020***

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***Wednesday, May 27, 2020***