Company	Section	Title	Part	Rev. Date	Page#
Nucor – Crawfordsville Mill	2.A	Radiological Instrumentation	Portable Survey Meters	10/3/17	3 of 3

General Radiation Survey Form

Kind of Survey			ocation: Gelvline	Entry		Item: DMC Gause
Purpose of Surv	eys:			,	<u></u>	
Determi	ne post	incie	dent rad	iological	conditi	RM License #:
Company Nam				Corner boods	ille, IS	RM License #: XN 000400
Survey Diagran	n:	,		1	Vi	ew/Direction: A 1
Device Make:	Model:	i	erial #:	Source Model:	- 3113	
DMC	AM-SA	13.	5/0303	AMERSHAM	18141	
Manufacturer N		- 0	11	na A	Manf. Li	icense #: **/A
	`	P. (3e:	thers burg,	181 14		· · / A
Supporting Det	ails: See	atta	sehed	ema:		,
Survey By:	ecky Mon	per	Survey Date/Tim 9//0//8 8:4		Type:	Process Type:
Meter Make:	Model: 19 + Z	Serial #: 894/4 15715		114-	9 2	Calibration Date: Ne B/28/19
			emī	PR 16	8170/	Due 3/1/19

Aker, Shawn (NSIN)

From:

Becky Mumper <rmumper@chaseenv.com>

Sent:

Monday, September 10, 2018 10:00 AM

To:

'Craig Eisenberg'; 'Daniel G Hoover'; Aker, Shawn (NSIN)

Subject:

Galv Line Gauge Incident

Attachments:

IMG_8069.jpg; IMG_8070.jpg; IMG_8071.jpg; IMG_8073.jpg; IMG_8074.jpg; IMG_8075.jpg; IMG_8076.jpg; IMG_8076.jpg; IMG_8076.jpg; IMG_8079.jpg; IMG_8080.jpg

All,

Here are some brief details from me that may be needed when notifying the NRC. Just sending this quick email so I can get started training. Let me know if I'm missing any info and I'll address it when I can.

Instruments used for surveys: LMI 19 # 89414, cal due 8/28/19 LMI 3 #157156 w/ 44-9 PR169170, cal due 3/1/19

The gauge label is in one of the attached pictures for that info.

Bkgd reading: 4 microR/hr

Highest reading on contact with gauge: 420 microR/hr (0.42 mR/hr)

1 ft reading: 35 microR/hr

Performed leak test and took a reading of the swab with the LMI 3 - all readings were at background (40 cpm).

Transported the gauge from the pillar next to the galv line to a cabinet in a nearby electrical room. Placed the gauge in the bottom shelf of the cabinet and secured cabinet with a lock. Posted "Caution Radioactive Materials" sign on cabinet and wrote highest reading on contact with cabinet (20 microR/hr) on sign. Photos of all of these things are attached.

Shawn and Rick Newcomer can hopefully fill in the rest of the details.

Thanks!

----Original Message-----

From: Becky Mumper [mailto:rmumper@chaseenv.com]

Sent: Monday, September 10, 2018 9:40 AM To: Work E-mail rmumper@chaseenv.com

Subject:



Chase Environmental Group

200 Sam Rayburn Parkway Lenoir City, TN 37771 (865) 816-6015

LEAK TEST CERTIFICATE

Generator Information

Client #: 1010

Issued To: Nucor Steel Corp.

Crawfordsville Mill 4537 South Nucor Rd.

Crawfordsville,

USA

IN 47933-7969

Sample Information

Sample#: 1 Location: Galv. Line "A"

<u>Sample Date</u> 9/10/18

Manuf. DMC Model

AM-5A

<u>Device #</u> BS 10303

Sampled By: Becky Mumper <u>Isotope</u> Am-241 Activity
1.0 Ci.

Source S/N 2421 LV

Notes: Post-incident Leak Test

Laboratory Information

R.A. Mumper, Lab Tech

9/17/18 Lab Date 4593

<0.005 μCi. Lab Results

<u>Instrumentation</u>

 $MDA (37 Bq. = 0.001 \mu Ci.)$

Instr.#: 102010 Det.#: PR102462 Cs-137: 0.00004 μ Ci Pu-239: 0.0000027 μ Ci

Tc-99: 0.00005 μCi

C-14: 0.00011 µCi

Removable contamination (leak test) analysis was obtained using detection configuration: 48

Sample results were less than 0.005 μ Ci. (<185 Bq.), and will not require regulatory notification. All documents, including this certificate, should be maintained on file for agency review. Services provided in accordance with Tennessee Radioactive Materials License # R-53008-E19.

EXPIRES: 10/31/2020 APPROVED BY OMB: NO. 3150-0013 U.S. NUCLEAR REGULATORY COMMISSION NRC FORM 241 Estimated burden per response to comply with this mandatory collection request: 30 minutes. This notification is required so that NRO may schedule inspection of the activities to ensure that they are conducted in accordance with regulatements for protection of the public health and schelly. Send comments regarding burden estimate to the information Servicos Etend (FT 243), U.S. Nudez Regulatory Commission, Westington, DC 2055-5001, or by o-mail to infocotiectes Resource@me gard, and to the Desk Olicor, Olico of Information and Regulatory Marias, NEOB-10226, (3150-0013), Olico of Management and Budget, Wastrington, DC 20503. If a means used to improve an information collection does not display a currently vastif ONE control number, the NRO may not conduct or sponsor, and a person is not required to respect to, the Information collection. (10-2017) REPORT OF PROPOSED ACTIVITIES IN NON-AGREEMENT STATES, AREAS OF EXCLUSIVE FEDERAL JURISDICTION, OR OFFSHORE WATERS (Please read the instructions before completing this form) 2. Type of Report 1. Name of Licensee (Person or firm proposing to conduct the activities described below) √ Change Initial Chase Environmental Group, Inc 4. Licensee Contact and Title Address of Licensee (Mailing address or other location where licensee may be located) Becky Mumper, Radiation Safety Consultant 200 Sam Rayburn Parkway Lenolr City, TN 37771 6. Pacsimile Number 5a. Work Cell Number 5. Office Number (865) 816-6251 (865) 816-6015 7. E-mall Address rmumper@chaseenv.com 8. Activities to be conducted under the general license given in 10 CFR 150,20 Type of Service post-incident gauge evaluation Leak Testing and/or Calibrations Well Logging Other (Specify) Portable Gauge Registered as user of packaging (Certificales of Compliance Numbers) Radlography Actual physical addr. work location (Street, Number or other location, GPS Coordinates if known) Client Name and Address (Include county, city, state and zip code) Shawn Aker Nucor Steel Crawfordsville 4537 South Nucor Road 11. Client Work Telephone Number 12. Work Location Telephone Number Crawfordsville, IN 47933 Work Cell Work Cell Office (765) 364-1323 17. Location Rofer, Num. (Assigned by NRC) 13. Dates Scheduled 16. Delete 16. Add 14. Number of Work Days Waekends To 147542 From Yes ✓ No 9/10/2018 9/10/2018 LIST ADDITIONAL WORK SITES ON SEPARATE SHEET(S) TO INCLUDE ALL INFORMATION IN ITEMS 10-17 ABOVE Device Type / Sealed Sources Model Number List Radioactive Material, which will be possessed, used, installed, serviced, or tested. (Include description of type and quantity of radioactive material, sealed sources, or devices to be used.) DMC AM-5A, Serial 2421LV, 1 Curle Am-241 **Expiration Date** License Number State Agreement State Specific License which authorizes the undersigned to conduct activities which are the same, except for location of use, as specified in Item 10 above. (One copy of the specific license must accompany the Initial NRC Form 241.) 5/31/2019 R-53008-E19 TN 20. CERTIFICATION (Must be completed by applicant) I, THE UNDERSIGNED, HEREBY CERTIFY THAT: a. All information in this report is true and complete. b. I have read and understand the provision of the general license 10 CFR 150.20 reprinted on the instructions of this form; and I understand that I am required to comply with these provisions as to all byproduct, source, or special nuclear material which I possess and use in Non-agreement States or offshore waters under the general license for which this report is filed with the U. S. Nuclear Regulatory Commission. c. I understand that activities, including storage, conducted in non-Agreement States under general license 10 CFR 150.20 are limited to a total of 180 days in calendar year. With the exception of work conducted in off-shore waters, which is authorized for an unlimited period of time in the calendar year. d. I understand that I may be inspected by NRC at the above listed work site locations and at the Licensee home office address for activities performed in non-Agreement States or offshore waters, e. I understand that conduct of any activities not described above, including conduct of activities on dates or locations different from those described above or without NRC authorization, may subject me to enforcement action, including civil or criminal penalties. Total Usage - Days to Date Approved by RSO or Management Representative (Printed Name and Title) Chris Echterling, RSO 10 WARNING: Falsa statements in this coulificate may be subject to civil and/or criminal panables. NRC regulations require that submissions to the NRC be complete and accurate in all material respects, 10 U.O.O. Beclion 1001 makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. Signature Total Usage - Days to Date Approved by (Typed/Printed Name and Title) FOR 9/10/18 Michael Reichard, Ho NRC

Sensitive-Security Related

MD 3.4 Non-Public a.3

Non-Public

USE

ONLY

ADAMS ML#

Call-IN Call-IN S20290

Rest 520290

Rest William Salar 10000



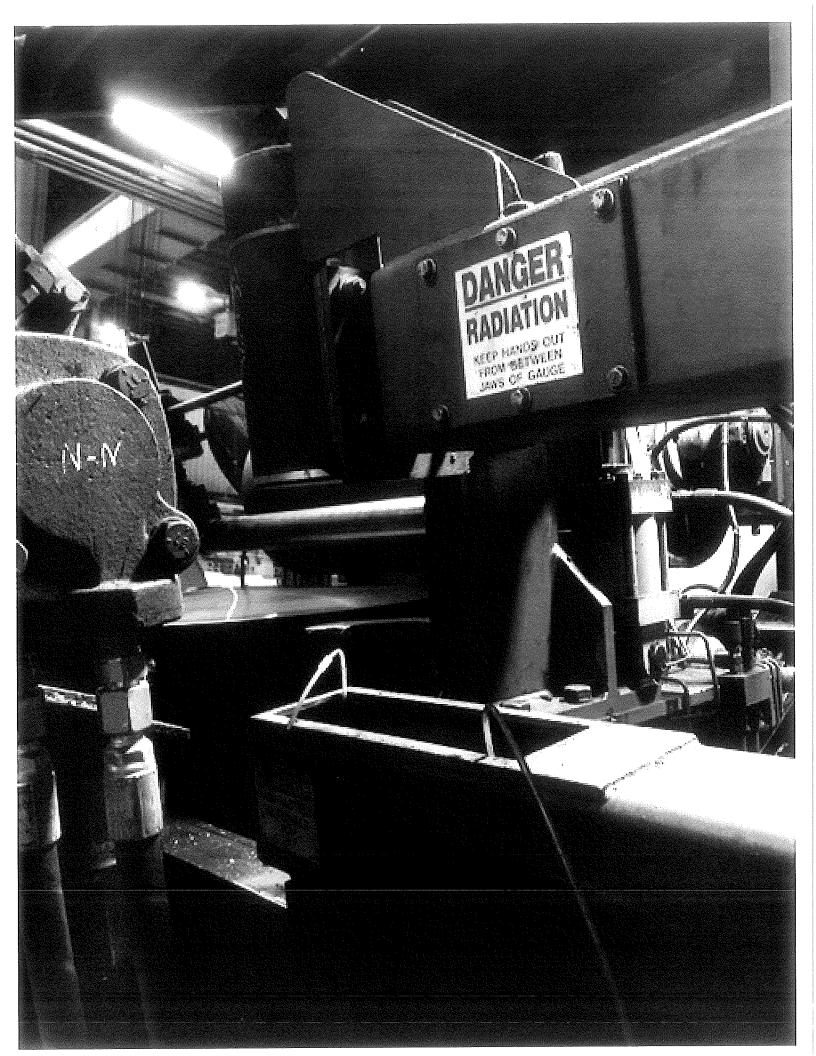
Customer Service Report

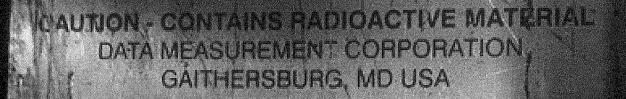
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8430 Estates Court, Plain City, Ohio 43064-8015 USA (614) 873-6691 (Phone) (614) 873-6770 (Fax)

www.AdvGauging.com Service@AdvGauging.com (E-mail)
(Original to Customer, photocopy to A.G.T. Accounting Department)

Source Medalle-E-1 Acc E-0 (200 200)	NGauge Model/Serial	Gauge Model/Serial
Source Model/Serial Arc. 5A / 243/LV Isotope Arm 24/	Source Model/Serial	Source Model/Serial
	Isotope	Isotope
Activity / COR, E	Activity	Activity
System Startup	System Startup	System Startup
Dose Rate Survey	☐ Dose Rate Survey	
Site Survey	Site Survey	Dose Rate Survey
Training	Training	Site Survey Training
Semi-Annual Inspection	Semi-Annual Inspection	
Shutter Operation:	Shutter Operation:	Semi-Annual Inspection
Nomal	Normal	Shutter Operation:
Not Normal	Not Normal	Normal
Not Applicable	Not Applicable	Not Normal
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Shutter Indicator Operation:	Shutter Indicator Operation:	Source in Storage
	Normal	Shutter Indicator Operation: Normal
Not Normal	Not Normal	Not Normal
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Source in Storage	Source in Storage	Source in Storage
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STRIAL #: 2421UV MODEL #: AM-54

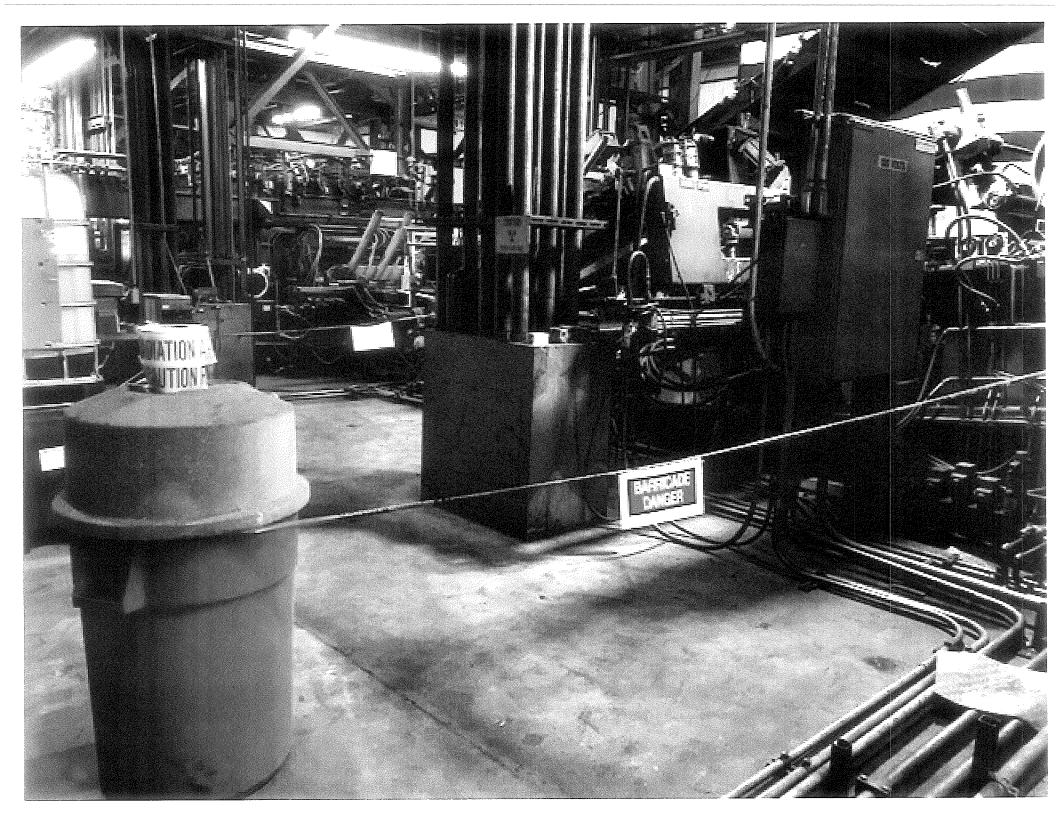
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L AGREEMENT/DISPOSAL PROHIBITED UNLESS TRANSFERRE L AGREEMENT/STATE OR U.S. NRC SPECIFIC LICENSEES DPERATION ERCHABITED IF ANY INDICATION OF

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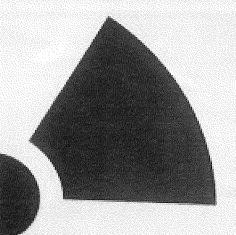
DEATION MAINTENANCE BY AGREEMENT STATE







TION



Highest oncontact reading: 20 mp/hr (0.02 mp/hr) PAM 9/10/18

ACTIVE

From: Aker, Shawn (NSIN)
To: Draper, Jason

Subject: [External_Sender] FW: Nucor

Date: Monday, March 30, 2020 1:05:43 PM

Attachments: 20180917152610238.pdf

From: Aker, Shawn (NSIN)

Sent: Monday, September 17, 2018 4:37 PM

To: kevin.null@nrc.gov

Subject: Nucor

Hello Kevin,

Please see the attached information regarding our incident on 9/10/18. Included is our leak test certification from Chase received today, this was the last piece of information I was waiting on. If you have any questions, please contact me for any additional information.

Regards,

Shawn

