

October 28, 1996

DCD

Ken Scheffler
Plant Manager
Great Lakes Sugar Company
1101 North Front Street
Fremont, OH 43420

SUBJECT: NRC INSPECTION REPORT NO. 96-001

Dear Mr. Scheffler:

This refers to the inspection conducted on September 24, 1996 at Great Lakes Sugar Company with continuing in-office review through October 11, 1996. The purpose of the inspection was to determine whether activities authorized by the license were conducted safely and in accordance with NRC requirements. At the conclusion of the inspection, the findings were discussed with you and members of your staff.

The inspection was an examination of activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and with the conditions of your license. Within these areas, the inspection consisted of selective examinations of procedures and representative records, interviews with personnel, independent measurements and observation of activities in progress. We also reviewed certain aspects of your safety program in documentation submitted via FAX on October 11, 1996.

In addition to the above areas, the inspector examined actions described in your letter dated October 29, 1992, regarding apparent violations found during our September 2, 1992 inspection. We have no further questions regarding these matters.

No violations of NRC requirements were identified during the course of this inspection.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practices," a copy of this letter, will be placed in the NRC Public Document Room (PDR).

We will gladly discuss any questions you have concerning this inspection.

9611010233 961028
PDR ADDCK 03031816
C PDR

Sincerely,
Cynthia D. Pederson, Director
Division of Nuclear Materials Safety

License No.: 34-26218-01

Docket No.: 030-31816

bcc w/encl: PUBLIC

B. Burgess, EICS

DOCUMENT NAME: G:\INSPRPTS\MTLS\030\03031816.961

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OFFICE	DNMS/RIII	DNMS/RIII	DNMS/RIII				
NAME	Piskura/jaw <i>PJP</i>	Madera <i>Jam</i>	Pederson <i>JP</i>				
DATE	10/1/96	10/2/96	10/1/96				

111
TE07

Date: 10/11/96
To: Debbie Piskura
From: Michael Millershaski
Great Lakes Sugar Company
Pages: 20
Pages 1, 7-20

Ms. Piskura

Following are the Last inventory and posting checks.
The wipe test for 7556, B1288, B1289, 60893, 6856, M3726 and M3724.
The field survey and paper work for the relocation of sources from
gauges 8, 9, 10, 11, 12, 17, and 18.

In addition to the inventory the shutter test are performed every six
months.

In you have any questions or require additional information please
call.

Michael Millershaski
RSO
Great Lakes Sugar Company
(810) 679-2240

B1288

The Ohmart Corporation
4241 Aliendorf Drive • Cincinnati, Ohio 45209
Phone (513) 272-0131 • FAX: (513) 272-0133

GREAT LAKES SUGAR COMPANY
1101 N. FRONT STREET
ATTN: MIKE MILLERSHASKI
FREMONT, OH 43420

ohmart
Nuclear Services

DATE 12 06/07/93
Customer P.O. No. 120070
Leak Test Kit

Attn: MIKE MILLERSHASKI

Caution: This kit is to be used only for the source holder described below. The information below appears on the metallic label on the actual OHMART source holder. Supply similar information if holder not OHMART.

Shop or Customer Order No. (S.O.C.O.)	Isotope	Serial No.	mCi	Source Holder
TN LX 8644A	Co-60	1000-50	1000	5200

Date Shipped	User Identification	Other
12/87	L. Miller	

Date of Test	Tested By (Tester's Signature)
8-7-95	Mike Millershaski

This kit is to be used only by those whose license permit them to perform leak tests. (Per CPH-10 Part 20)

OHMART ANALYSIS

The following are analysis results:

Source is O.K. ☒ Activity less than 0.005 ☐ Activity Required ☐ Defective

Timothy G. Galt 8-15-95
Tested By/Authorized Signature Date

B1289

The Ohmart Corporation
4241 Allendorf Drive • Cincinnati, Ohio 45209
Phone (513) 272-0191 • FAX: (513) 272-0133

GREAT LAKES SUGAR COMPANY
1101 N. FRONT STREET
ATTN: MIKE MILLERSHASKI
FREMONT, OH 43420

Attn: MIKE MILLERSHASKI

C.O.#: OH95-2L-1713

Caution: This kit is to be used only for the source holder described below. The information below appears on the metallic label on the actual OHMART source holder. Supply similar information if holder not OHMART.

Shop or Customer Order No. (S.O./C.O.)	Isotope	Serial No.	mCi	Source Holder
TN LX 86448	CS-137	1000	1.0	5200

Date Shipped	User Identification	Other
12/87		

Date of Test	Tested By (Tester's Signature)
8-7-95	

This kit is to be used only by those whose licenses permit them to perform leak tests. (Per CFR-10 Part 20)

OHMART ANALYSIS

The following are analysis results:

Source is O.K.	Defective
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Timothy A. Allen 8-15-95
Tested By/Authorized Signature Date

ohmart
Nuclear Services

05/07/95

120070

Leak Test Kit

#1

The Ohmart Corporation
4241 Allendorf Drive • Cincinnati, Ohio 45209
Phone (513) 272-0131 • FAX: (513) 272-0133



Wipe Test Kit

GREAT LAKES SUGAR COMPANY
1101 N. FRONT STREET
FREMONT, OH 43420

Kit No. 11-1 Date 12/06/94
Customer P.O. No. 118839

Attn: Radiation Safety Officer

Caution: This kit is to be used only for the source holder described below. The information below appears on the metal label on the actual OHMART source holder. Supply similar information if holder not OHMART.

S.O. No. DET2-9031-02018 Isotope Cs-137 Serial No. 60893 m.C.I. 1200 Source Holder ES-2

Date Shipped 12-28-94 User Identification CMS-B Density Other

Date of Test 12-27-94 Tested By (Tester's Signature) Michael Miller RPO

This kit is to be used only by those whose license permit them to perform wipe tests. (Per CFR-10 Part 20)

OHMART ANALYSIS

The following are analysis results:

Source is OK ☒ (Activity less than 0.005µCi) ☒ Reusable Receptor ☐ Defective

Tested By/Authorized Signature Timothy L. Collins Date 1-5-95

The Ohmart Corporation
4241 Alkendorf Drive • Cincinnati, Ohio 45206
Phone (513) 272-0131 • FAX: (513) 272-0133

6856

GREAT LAKES SUGAR COMPANY
1101 N. FRONT STREET
ATTN: MIKE MILLERSHASKI
FREMONT, OH 43420

ohmart
Nuclear Services

12 06/07/95

120070
Leak Test Kit

Attn: MIKE MILLERSHASKI

Caution: This kit is to be used only for the source holder described below. The information below appears on the metallic label on the actual OHMART source holder. Supply similar information if holder not OHMART.

Shop or Customer Order No. (S.O./C.O.) DET F 9031-920180 Isotope CS-137 Serial No. 1555 mCi 2.9 Source Holder SB-A

Date Shipped 5-30-89 User Identification DET-0005 Other

Date of Test 8-7-95 Tested By (Tester's Signature) Mike Millershaski

This kit is to be used only by those whose license permit them to perform leak tests. (Per CFR-10 Part 20)

OHMART ANALYSIS

The following are analysis results:

Source is OK ☒ (Activity less than 0.005 Ci) ☐ Defective

Mike Millershaski 8-15-95
Tested By/Authorized Signature Date

The Ohmart Corporation
4241 Allendorf Drive • Cincinnati, Ohio 45209
Phone (513) 272-0131 • FAX: (513) 272-0133

GREAT LAKES SUGAR COMPANY
1101 N. FRONT STREET
ATTN: MIKE MILLERSHASKI
FREMONT, OH 43420

Attn: MIKE MILLERSHASKI

M3726
14
ohmart
Nuclear Services

126070
Leak Test Kit

Caution: This kit is to be used only for the source holder described below. The information below appears on the metallic label on the actual OHMART source holder. Supply similar information if holder not OHMART.

Shop or Customer Order No. (S.O./C.O.)

DEFT-9031-020180

Isotope

Serial No.

mCi

Source Holder

Date Shipped

5/89

User Identification

DIET-330

Other

Date of Test

11-10-95

Tested By (Tester's Signature)

This kit is to be used only by those whose license permit them to perform leak tests. (Per CFR-10 Part 20)

OHMART ANALYSIS

The following are analysis results:

Source is OK



(Activity less than 0.001)

Timothy A. Galt
Tested By/Authorized Signature
11-20-95
Date

m3724

The Ohmart Corporation
4241 Allendorf Drive • Cincinnati, Ohio 45209
Phone (513) 272-0131 • FAX: (513) 272-0133

GREAT LAKES SUGAR COMPANY
1101 N. FRONT STREET
ATTN: MIKE MILLERSHASKI
FREMONT, OH 43420

ohmart
Nuclear Services

Attn: MIKE MILLERSHASKI

C.O.#: OH95-21-1713

Caution: This kit is to be used only for the source holder described below. The information below appears on the metallic label on the actual OHMART source holder. Supply similar information if holder not OHMART.

Shop or Customer Order No. (S.O./C.O.)

Isotope

Serial No.

mCi

Source Holder

DETF-9031-02018

CS-137

CS-2

Date Shipped

User Identification

Other

5/89

DIT-PROF

Date of Test

Tested By (Tester's Signature)

11-10-95

This kit is to be used only by those whose license permit them to perform leak tests. (Per CFR-10 Part 20)

OHMART ANALYSIS

The following are analysis results:

Source is O.K.



(A) or less than 0.005 Ci

James H. Hall
Tested By/Authorized Signature

Date

11-20-95

NUCLEAR GAUGE INSPECTION DATES -- GREAT LAKES SUGAR

92-Oct-96

GAUGE NUMBER	USE	MFG	MODEL	SOURCE HOLDER S/N	SOURCE S/N	ELEMENT	ACTIVITY dCi	DATE OF ACQUISITION
1	DIT-8385	CHART	ES-2	2983182818	68893	Cs-137	1200	9/89
2	DIT-9050	CHART	ES-3	983182818-C	N3724	Cs-137	1200	5/89
3	DISPOSED OF	CHART	ES-3	983182818-F	N3725	Cs-137	1200	5/89
4	DIT-8335	CHART	ES-2	983182818-D	N3726	Cs-137	1200	5/89
5	DISPOSED OF	CHART	ES-2	983182818-E	N3283	Cs-137	1200	5/89
6	DIT-2468	CHART	ES-2	983182818-G	N3284	Cs-137	1200	5/89
7	DIT-8845	CHART	SR-A	983182818-A	6856	Cs-137	20	5/89
8*	DIT-2580	CHART	SR-A	983182818-B	N3141	Cs-137	50	5/89
9*	LINE SLURRY	CHART	SR-A	683888872	75443	Cs-137	50	5/89
10*	N LINE KILN	TEXAS NUCLEAR	5280	LX8644A	B1288	Cs-137	100	9/86
11*	S LINE KILN	TEXAS NUCLEAR	5280	LX8644B	B1289	Cs-137	100	12/87
12*	DIT-2780	CHART	SR-1A	883887878	N3157	Cs-137	100	12/87
13	"A" PAN DENSITY	BERTHOLD	LB388-IPD	LB386-1C	445-3-87	Cs-137	30	9/90
14	"B" PAN DENSITY	BERTHOLD	LB388-IPD	LB367-1	7556	Cs-137	30	11/88
15	NO. 5 EVAP DENS	TEXAS NUCLEAR	58315	88841	665463	Cs-137	50	10/98
16	NO. 6 EVAP DENS	TEXAS NUCLEAR	58316	88842	665431	Cs-137	50	7/92
17*	W PULP COLLECTOR	TEXAS NUCLEAR	5281	B1924	645299	Cs-137	20	7/92
18*	E PULP COLLECTOR	TEXAS NUCLEAR	5281	B1925	645315	Cs-137	20	7/92

The sources from gauges #8, 9, 10, 11, 12, 17 and 18 were moved to locked storage in the Lab storeroom on 10-01-96.

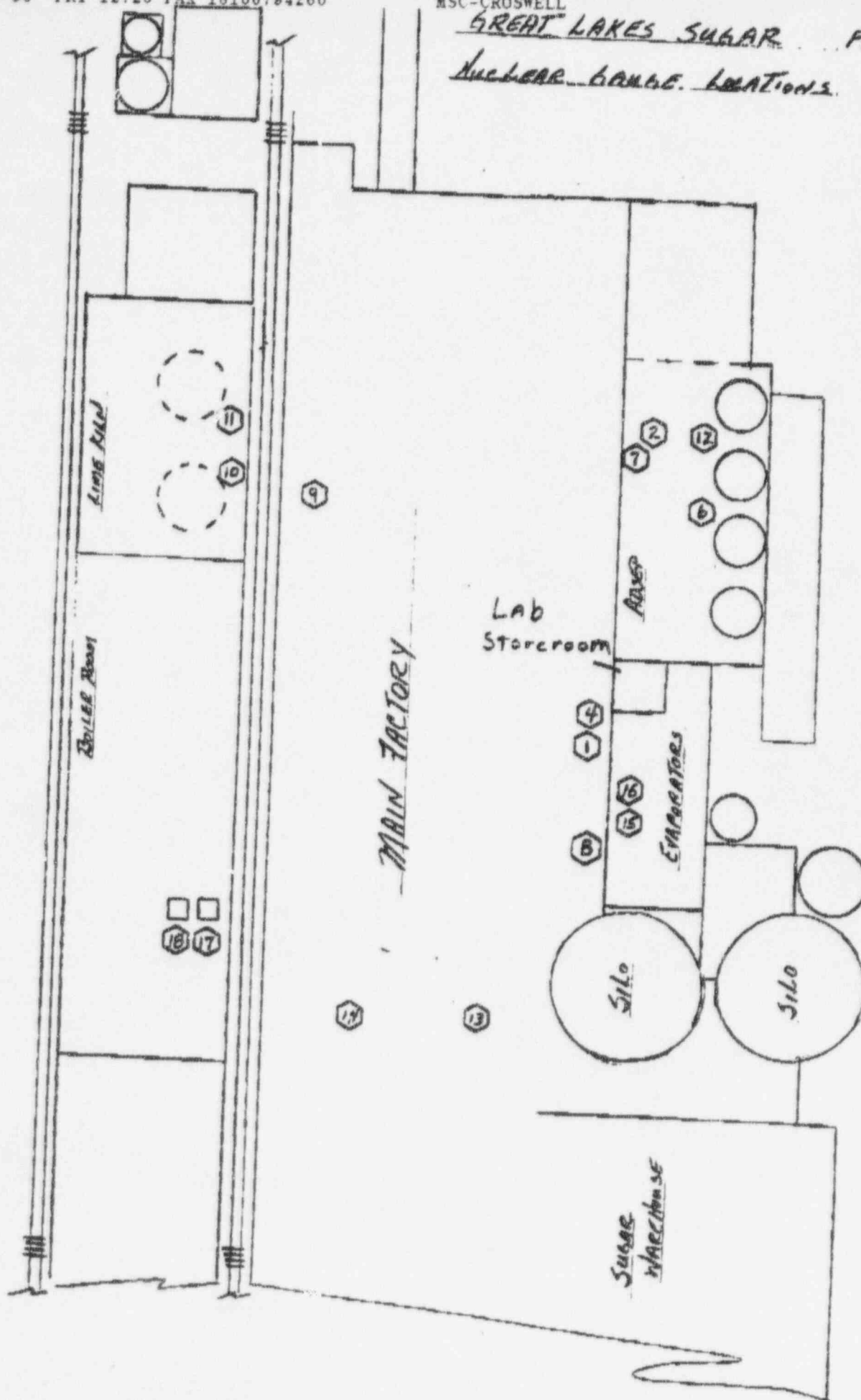
The Field Intensity Survey for each gauge is in the section for that gauge.

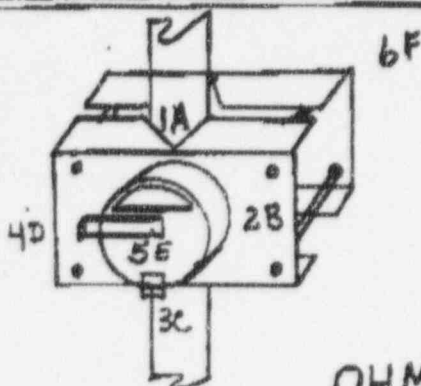
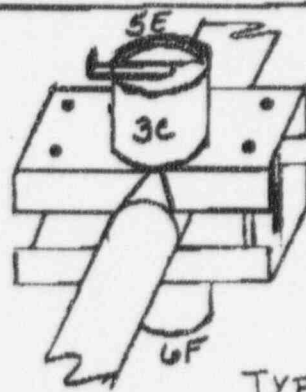
The Field Intensity for the plant above, below, North, South, East and West did not exceed .15 mR/hr on the other side of the wall of the Lab storeroom.

Michael Willechach.
BSO

GREAT LAKES SUGAR FREMONT, OHIO
NUCLEAR GAGE LOCATIONS

AS

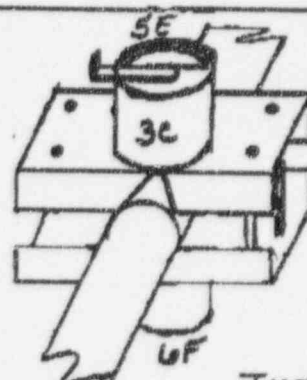
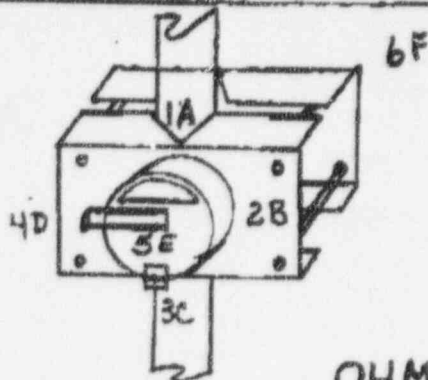


GREAT LAKES SUGARMSTMALASSES SEPARATION TECHNOLOGYRADIATION SAFETY SURVEYOHMART CORP.TYPE SR-ADATE: 10-1-96SOURCE HOLDER: SR-ASOURCE MATERIAL: CS-137SOURCE ACTIVITY: 50 mCiSOURCE SERIAL NO.: M 3141OHMART SO. : F9031-020-18-1DAPPLICATION: DIT 2500

Moved to Locked
Storage while pipe
Replaced

8

STARTER OPERATIONAL TEST:OPERATIONAL CONDITION: FullEMPTYFIELD INTENSITY @ 2" DISTANCE1A 22B 13C .74D 25E 176F 7G 8H FIELD INTENSITY @ 12" DISTANCE.7.4.3.33SURVEY METER MANUFACTURER & DOSEMETER CORPORATIONMODEL 3035-2SERIAL NO. 334-1189CALIBRATION DATE: 4-5-91Michael MillerRPD SIGNATURE:

GREAT LAKES SUGARMSTMALASSES SEPARATION TECHNOLOGYRADIATION SAFETY SURVEYOHMART CORP.TYPE SR-ASOURCE HOLDER:SR-ASOURCE MATERIAL:CS-137SOURCE ACTIVITY:80mCiSOURCE SERIAL NO.:76043OHMART SD.:M 603008072DATE: 10-1-96APPLICATION:

Limc Slurry
Moved source to Locked
Storage Lab Storage Room
10-1-96
#9

SHUTTER OPERATIONAL TEST:OPERATIONAL CONDITION: Full EMPTYFIELD INTENSITY @ 2" DISTANCE1A 52B 1.53C 0.64D 0.75E 2.06F 67G8HFIELD INTENSITY @ 12" DISTANCE

1.5

0.4

0.3

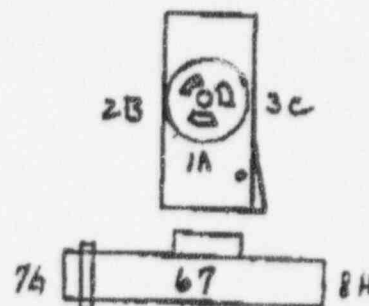
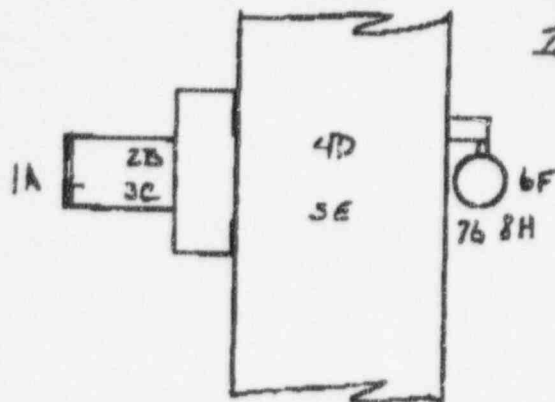
0.3

8

0.9

SURVEY METER MANUFACTURER: DOSIMETER CORPORATIONMODEL: 3035-2CALIBRATION DATE: 4-5-96SERIAL NO.: 334-1189RPO SIGNATURE:

Michael Mullaresh

GREAT LAKES SUGARMSTMOLASSES SEPARATION TECHNOLOGYRADIATION SAFETY SURVEYTEXAS NUCLEAR

SOURCE HEAD MODEL NO: 5200
SOURCE MATERIAL: LS-137
SOURCE ACTIVITY: 100 mCi
SOURCE SERIAL NO: B1288
SOURCE TAG NO: LX 8644A

DATE 10-1-96

APPLICATION: North Line Kiln
 Moved Source to Locked
 Storage Lab Store Room
 10-1-96 #10

SHUTTER OPERATIONAL TEST:OPERATIONAL CONDITION: Full EMPTYFIELD INTENSITY @ 2" DISTANCE

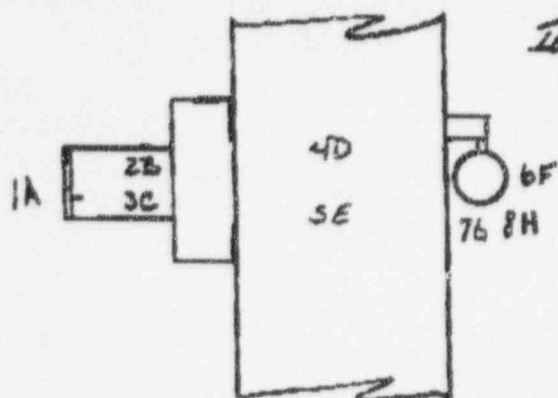
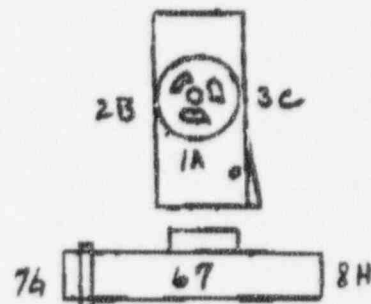
1A	10
2B	11
3C	9
4D	12
SE	10
6F	
76	
8H	

FIELD INTENSITY @ 12" DISTANCE

1A	4
2B	2
3C	4
4D	4
SE	4
6F	
76	
8H	

SURVEY METER MANUFACTURER: Dosimeter CorporationMODEL: 3035-2SERIAL NO: 334-1119CALIBRATION DATE: 4-5-96

Michael Miller
 RPO Signature

GREAT LAKES SUGARRADIATION SAFETY SURVEYMSTMolasses Separation TechnologyTexas Nuclear

SOURCE HEAD Model No: 5200
SOURCE MATERIAL: CS-137
SOURCE ACTIVITY: 100 mCi
SOURCE SERIAL No: B-1288
SOURCE TAG No: LX 8644A

DATE 10-1-96

APPLICATION: South Line Film
 Moved Source to Locked
 Storage. Lab Store Room
 10-1-96 #11

SHUTTER OPERATIONAL TEST:OPERATIONAL CONDITION: Full EMPTYFIELD INTENSITY @ 2" DISTANCE

1A 8

2B 11

3C 9

4D 10

5E 10

6F

76

8H

FIELD INTENSITY @ 12" DISTANCE

2

3

3

3

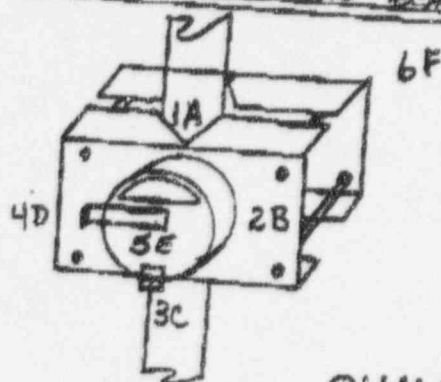
2

SURVEY METER MANUFACTURER: Dosimeter CorporationMODEL: 3035-2SERIAL NO: 334-1169CALIBRATION DATE: 4-5-96

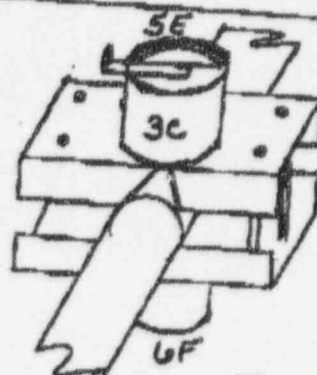
Michael Millerbach
RPO SIGNATURE:

MST
Molasses Separation Technology

RADIATION SAFETY SURVEY



OHMART CORP.



TYPE SR-A

SOURCE HOLDER: SR-1A
 SOURCE MATERIAL: CS-137
 SOURCE ACTIVITY: 120 mCi
 SOURCE SERIAL NO: M5157
 OHMART SQ: F903007078

DATE: 10-1-96

APPLICATION: DIT-2700

Moved to Locked
 Storage AT Lab Storage Room

#12

SHUTTER OPERATIONAL TEST:

OPERATIONAL CONDITION: Full EMPTY

FIELD INTENSITY @ 2" DISTANCE

1A .7

2B .15

3C .2

4D .6

5E 1

6F

7G

8H

FIELD INTENSITY @ 14" DISTANCE

.3

.1

.1

.3

0.3

SURVEY METER MANUFACTURER: Dosimeter Corporation
 Model 3035-2

SERIAL No. 334-1189

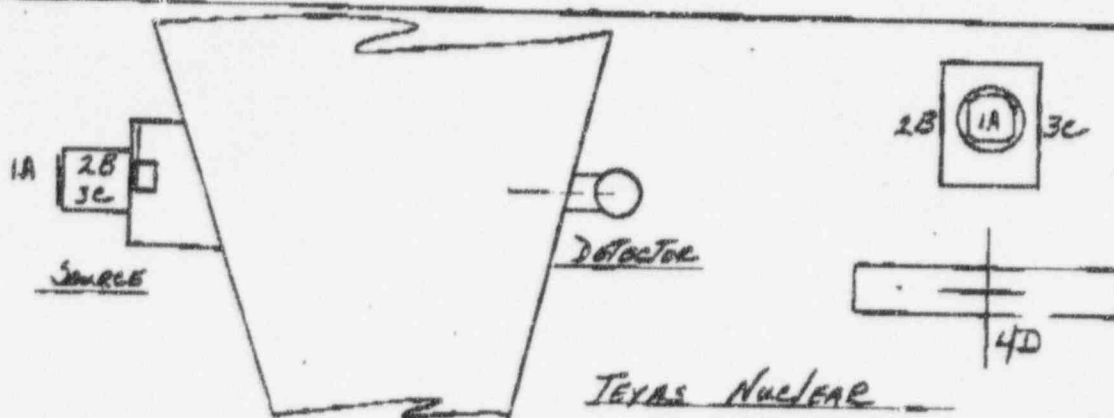
CALIBRATION DATE: 4-5-96

Michael Miloschuk
 RPD SIGNATURE:

7, 8, 9, 12

#18

#9

GREAT LAKES SHARPRADIATION SAFETY SURVEY

Model No: 5201
SERIAL No: B1925
SOURCE SERIAL No: HU 5315
SOURCE MATERIAL: Cs-137
SOURCE ACTIVITY: 20 mCi

DATE: 10-1-96

APPLICATION:

East Pulp Dust collector
 Moved to Locked storage.
 Lab Storeroom
 10-1-96

SHUTTER OPERATIONAL:LOCK OPERATIONAL:OPERATIONAL CONDITION: FULL EMPTYFIELD INTENSITY @ 2" DISTANCE

1A 1.5

2B 3

3C 3

4D .2

5E

6F

7G

8H

FIELD INTENSITY @ 12" DISTANCE

.4

.4

.5

.1

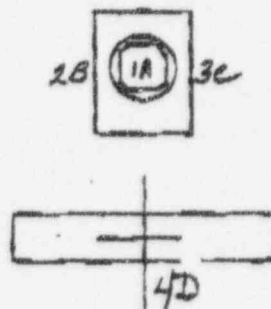
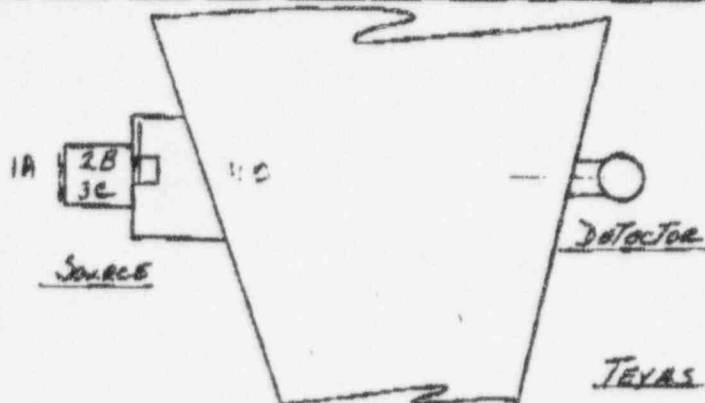
SURVEY METER MANUFACTURER: Dosimeter CorporationMODEL: 3035-2SERIAL No. 334-1189CALIBRATION DATE: 4-5-96

Michael Nilsen

RPO SIGNATURE:

17

#4

GREAT LAKES SHEDRADIATION SAFETY SURVEYDATE: 10-1-96

Model No: 5201
SERIAL No: B1924
SOURCE SERIAL No: HV5299
SOURCE MATERIAL: CS-137
SOURCE ACTIVITY: 20mCi

APPLICATION:
 West Pulp Dust Collector
 Source moved to Storage
 Lab store room.

SHUTTER OPERATIONAL:
LOCK OPERATIONAL:

OPERATIONAL CONDITION: FULL EMPTY

FIELD INTENSITY @ 2" DISTANCE
 1A 7
 2B 3
 3C 1.5
 4D 0.2
 5E
 6F
 7G
 8H

FIELD INTENSITY @ 12" DISTANCE
 5
 4
 3
 15

SURVEY METER MANUFACTURER: Dosimeter Corporation

MODEL: 3035-2

SERIAL No. 334-1189

CALIBRATION DATE: 4-5-96

Michael Mulla
RFO SIGNATURE:

Date: 10/11/96
To: Debbie Piskura
From: Michael Millershaski
Great Lakes Sugar Company
Pages: 20

Ms. Piskura

Following are the Last inventory and posting checks.
The wipe test for 7556, B1288, B1289, 60893, 6856, M3726 and M3724.
The field survey and paper work for the relocation of sources from
gauges 8,9,10,11,12,17, and 18.

In addition to the inventory the shutter test are performed every six
months.

In you have any questions or require additional information please
call.

Michael Millershaski
RSO
Great Lakes Sugar Company
(810) 679-2240

RECEIVED

OCT 11 1996

REGION III

Inventory and Posting

Date 4-3-96

Gauge Number	Use Location	Source Holder S/N	Source S/N	Posting
1	DIT-0305 1st floor sugar end	270310201B	60893	ok
2	DIT-0050 Top floor ADSEP	903102018-C	143724	ok
3	Disposed of			
4	DIT-0335 1st floor sugar end	903102018-D	143726	ok
5	Disposed of			
6	DIT-2480 2nd level ADSEP	903102018-B	143724	ok
7	DIT-0045 Top floor ADSEP	903102018-A	6856	ok
8	DIT-2500 2nd floor sugar end	903102018-B	143741	ok
9	Lime Slurry Top Floor Beel end	66300807	76043	ok
10	N Lime Kiln 4th level lime kiln	LX8644A	B1288	ok*
11	S Lime Kiln 4th level lime kiln	LX8644B	B1289	ok*
12	DIT-2700 3rd level ADSEP	003007078	145157	ok
13	A Pan Density 3rd level Sugar end	LB386-1C	445-3-87	ok*
14	B Pan Density 3rd level Sugar end	LB300 ^{LB307-1C}	7556	ok*
15	No. 5 Evap Density 2nd Level Sugar	B0041	885463	ok*
16	No. 6 Evap Density 2nd Level Sugar	B0042	885431	ok*
17	W. Pulp Collector 2nd Level Dryer	B1924	885299	ok*
18	E. Pulp Collector 2nd Level Dryer	B1925	885315	ok*

All Source holder serial numbers matched with records.

* checked confined space entry points on these vessels

Michael Millashaki

NUCLEAR GAUGE INSPECTION DATES - GREAT LAKES SUBAR

02-Oct-96

GAUGE NO.	SERIAL NO.	DATE OF NEXT REQUIRED SHUTTER TEST
03	N3725	N/A
02	N3724	N/A
01	68093	N/A
06	N3204	N/A
04	N3726	N/A
05	N3203	N/A
11	B1289	N/A
18	6W5315	19-Dec-96
10	B1288	19-Dec-96
17	6V5299	19-Dec-96
09	76043	19-Dec-96
07	6256	19-Dec-96
13	445-3-87	27-Dec-96
08	N3141	27-Dec-96
14	7556	27-Dec-96
16	685431	28-Mar-97
12	N5157	28-Mar-97
15	685463	28-Mar-97

NUCLEAR GAUGE INSPECTION DATES - GREAT LAKES SUGAR

02-Oct-96

GAUGE NO.	SERIAL NO.	DATE OF NEXT REQUIRED WIPE TEST
03	K3725	DISPOSED OF 27-Oct-92
05	K3203	DISPOSED OF 28-Nov-89
12	K5157	28-Nov-96
14	7956	18-Jul-97
01	68893	27-Dec-97
10	B1288	07-Aug-98
13	445-3-87	07-Aug-98
11	B1289	07-Aug-98
08	K3141	07-Aug-98
06	K3264	07-Aug-98
09	76843	07-Aug-98
07	6856	07-Aug-98
04	K3726	29-Sep-98
16	605431	29-Sep-98
18	6V5315	29-Sep-98
17	0V5299	29-Sep-98
02	K3724	29-Sep-98
15	685463	29-Sep-98

The Ohmart Corporation
4241 Allendorf Drive • Cincinnati, Ohio 45209
Phone (513) 272-0131 • TLX: RCA 212071



Great Lakes Sugar Company
1101 N. Front Street
Fremont, OH 43420

Wipe Test Kit

Kit No. | Date 8-25-92

Attn: Radiation Safety Officer

Customer P.O. No.
113987

Caution: This kit is to be used only for the source holder described below. The information below appears on the metallic label on the actual OHMART source holder. Supply similar information if holder not OHMART.

S.O. No.	Isotope	Serial No.	m.Ci.	Source Holder
2421-7-90/7556	CS-137	7556	30 mCi	LB300-IPD

Date Shipped	User Identification	Other
8-9-94	'B' pan	#14

Date of Test
8-9-94

Tested By (Tester's Signature)
Michael Millerstach

This kit is to be used only by those whose license permit them to perform wipe tests. (Per CFR-10 Part 20)

OHMART ANALYSIS

The following are analysis results:

Source is O.K.



(Activity less than 0.005µCi)



Receipts Required



Defective

Am 22

Tested By (Tester's Signature)
Michael Millerstach

Date 8-18-94