United States Bankruptcy Court,

OF DELAWARE

In re EXIDE TECHNOLOGIES

Case No. 02-11125

DOCUMENTS APPENDED TO CLAIM

On May 25, 2007, document(s) were appended to Claim No 5359 for the following reason

☐ Stipulation/Order

☐ New Supporting Documents

☐ Change of Address

☒ ~~Letter and~~ Notice of Withdrawal filed, dkt 5817, filed date 5/24/2007

☐ Other

IN THE UNITED STATES BANKRUPTCY COURT

FOR THE DISTRICT OF DELAWARE

In re	)	
	)	Chapter 11
EXIDE TECHNOLOGIES,	)	
	)	Case No 02-11125 (KJC)
Reorganized Debtor	)	
	)	
	)	

NOTICE OF WITHDRAWAL OF CLAIMS

The undersigned counsel, as duly authorized by the claimants listed on the attached Exhibit A ("Burlington, Iowa Claimants"), does hereby withdraw, with prejudice, each and every claim listed on Exhibit A, together with any and all other claims filed by, or on behalf of, each and every one of the Burlington, Iowa Claimants, with the U S Bankruptcy Court for the District of Delaware in the above-captioned case pursuant to Federal Rule of Bankruptcy Procedure 3006

Date 5/18/07

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Exhibit A

Claimant Name	Claim No
BOYD, MICHAEL	5353
BROBSTON, CHERYL	5354
BYRD, JOHN	5355
CARLSON, STEVEN	5356
FEEHAN, CRAIG BERNARD	5260
FEEHAN, CRAIG BERNARD	5357
FOGELSTROM, DWIGHT	5358
FOUNTAIN, MITCHELL	5359
FRANK, LEONARD	5361
HALE, EDDIE	5362
HECOX, JANE	5363
HINES, MITCH	5364
HOGBERG, JERRY	5365
HOLLAND, JUDITH	5366
JOHN, KEITH	5368
JOHN, MICHAEL	5367
JOHNSON, KEITH D	5369
JOHNSON, MICHAEL	5370
JOHNSON, WALTER	5371
LANDSTROM, BRIAN	5372
MARTIN, VICKY	5373
MEHAFFY, JAY	5374
MEYER, TERRY	5375
MICKEY, DONALD	5405
MOSENA, HOWARD	5376
OGLESBY, EDWARD	5377
PATTON, JERRY	5378
PENCE, BRIAN	5379
REYNOLDS, KENNETH	5382
SALDEEN, DANIEL	5384
SANDBERG DOUGHERTY, JOAN	5385
SATTLER, LOUIS	5386
SCHAEFER, RANDALL	5387
SCHIEDEL, LAURA	5390
SCHMEISER, DALE	5388
SEAGER, STANLEY	5389
SINK, JASON	5391
STEWARD, JENA	5392
SWINK, DONALD	5393
TEITSWORTH, WILLIAM	5394
THORNTON, MONTY	5395
TISOR, STEVE	5396
WEISS, MARK	5397
WHITE, TIMOTHY	5406
YEAGER, RUSSELL	5398

IN THE UNITED STATES BANKRUPTCY COURT

FOR THE DISTRICT OF DELAWARE

In re	)	Chapter 11
	)	
EXIDE TECHNOLOGIES,	)	Case No 02-11125 (KJC)
	)	
Reorganized Debtor	)	

AFFIDAVIT OF SERVICE

STATE OF DELAWARE)
)SS
COUNTY OF NEW CASTLE)

Karina Yee, being duly sworn according to law, deposes and says that she is employed by the law firm of Pachulski Stang Ziehl Young Jones & Weintraub LLP, counsel for the Reorganized Debtor, in the above-captioned action, and that on the 24th day of May, 2007, she caused a copy of the following document(s) to be served upon the attached service list(s) in the manner indicated

Notice of Withdrawal of Claim

Karina Yee

Sworn to and subscribed before
me this 24th day of May, 2007

Notary Public
My Commission Expires 11/4/07

MARY E CORCORAN
Notary Public
State of Delaware
My Commission Expires Nov 4, 2007

Exide Technologies 2002 Service List
Case No 02-11125 (KJC)
Document No 62730
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006 – Overnight Delivery
169 – First Class Mail
001 – Foreign First Class Mail

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File a Claim action

02-11125-KJC Exide Technologies

Type bk Chapter 11 v Office 1 (Delaware)
Judge KJC Assets y
Case Flag LEAD, APPEAL, MEGA, CONFIRMED, CLMSAGNT, MTRUNADV, Sealed Doc(s)

U S Bankruptcy Court

District of Delaware

Notice of Electronic Filing

The following transaction was received from O'Neill, James E entered on 5/24/2007 at 2 12 PM EDT and filed on 5/24/2007
Case Name Exide Technologies
Case Number 02-11125-KJC
Document Number 5817

Docket Text
Withdrawal of Claim *Nos 5353, 5354, 5355, 5356, 5260, 5357, 5358, 5359, 5361, 5362, 5363, 5364, 5365, 5366, 5367, 5368, 5369, 5370, 5371, 5372, 5373, 5374, 5375, 5405, 5376, 5377, 5378, 5379, 5382, 5384, 5385, 5386, 5387, 5390, 5388, 5389, 5391, 5392, 5393, 5394, 5395, 5396, 5397, 5406, 5398* Filed by Burlington, Iowa Plant Employees (Attachments # (1) Affidavit of Service) (O'Neill, James)

The following document(s) are associated with this transaction

Document description Main Document
Original filename W \DE Bankruptcy\Exide\May 2007\05-24-07\ntc of wd of claims\ntc pdf
Electronic document Stamp.
[STAMP bkecfStamp_ID=983460418 [Date=5/24/2007] [FileNumber=5652973-0]
[6a7ea46396adf5cfd7f9fe4e029ce925da0d4acda80123a05b29479257696cb39925
9ff033610e22086c80763644b8fb1c6ccfe3751cb8dd00a248a886a06c7a]]
Document description Affidavit of Service
Original filename W \DE Bankruptcy\Exide\May 2007\05-24-07\ntc of wd of claims\aos pdf
Electronic document Stamp
[STAMP bkecfStamp_ID=983460418 [Date=5/24/2007] [FileNumber=5652973-1]
[9bdbb4e12115b0f4f3d728a362905e00a3f3f720a2baff3199814c68c1a4501d5176
064a4536f39523361994982b422576d4dfb2a719c79f7524088503ef1f67]]

02-11125-KJC Notice will be electronically mailed to

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UNITED STATES BANKRUPTCY COURT	DISTRICT OF	PROOF OF CLAIM
Name of Debtor Exide Technologies et al	Case Number 02 11125 JCA	

NOTE This form should not be used to make a claim for an administrative expense arising after the commencement of the case A "request" for payment of an administrative expense may be filed pursuant to 11 USC § 503

Name of Creditor (The person or other entity to whom the debtor owes money or property)

Mitchell Fountain

[ ] Check box if you are aware that anyone else has filed a proof of claim relating to your claim Attach copy of statement giving particulars
[ ] Check box if you have never received any notices from the bankruptcy court in this case
[ ] Check box if the address differs from the address on the envelope sent to you by the Court

THIS SPACE FOR COURT USE ONLY

Name and address where notices should be sent

Motley Rice LLC
28 Bridgeside Boulevard, P O Box 1792
Mount Pleasant, SC 29465
Telephone (843)216-9000
Fax Number (843) 216 9550
Attn Fritz Jekel, Esq

Account or other number by which creditor identifies debtor

Check here [ ] replaces a previously filed claim dated _____
if this claim [ ] amends

1 Basis for Claim
[ ] Goods sold
[ ] Services performed
[ ] Money loaned
[x] Personal injury/wrongful death
[ ] Taxes [ ] Other

Claimant reserves all rights regarding this claim, including all rights to a jury trial under 28 U S C § 1416

[ ] Retiree benefits as defined in 11 USC § 1114(a)
[ ] Wages salaries and compensation (fill out below)
Your SS # _____ _____ - _____
Unpaid compensation for services performed
from _____ to (date) _____(date)

2 Date debt was incurred

3 If court judgment, date obtained

4 Total Amount of Claim at Time Case Filed $ Unliquidated but estimated as $_____
[ ] Check this box if claim includes interest or other charges in addition to the principal amount of the claim Attach itemized statement of all interest or additional charges

5 Secured Claim.
[ ] Check this box if your claim is secured by collateral (including a right of setoff)
Brief Description of Collateral
[ ] Real Estate [ ] Motor Vehicle [ ] Other

Value of Collateral $ _____

Amount of arrearage and other charges at time case filed included in secured claim if any $ _____

6 Unsecured Priority Claim.
[ ] Check this box if you have an unsecured priority claim
Amount entitled to priority $_____
Specify the priority of the claim
[ ] Wages salaries or commissions (up to $4 300) * earned within 90 days before filing of the bankruptcy petition or cessation of the debtor s business whichever is earlier 11 USC § 507(a)(3)
[ ] Contributions to an employee benefit plan 11 USC § 507(a)(4)
[ ] Up to $1 950* of deposits toward purchase lease or rental of property or services for personal family, or household use 11 USC § 507(a)(6)
[ ] Alimony maintenance, or support owed to a spouse former spouse or child 11 USC § 507(a)(7)
[ ] Taxes or penalties owed to governmental units 11 USC § 507(a)(8)
[ ] Other Specify applicable paragraph of 11 USC § 507(a)(___)
** Amounts are subject to adjustment pm 4/1/01 and every 3 years thereafter with respect to cases commenced on or after the date of adjustment*

7 Credits The amount of all payments on this claim has been credited and deducted for the purpose of making this proof of claim

8 Supporting Documents *Attach copies of supporting documents* such as promissory notes purchase orders invoices itemized statements of running accounts contracts court judgments mortgages security agreements and evidence of perfection of lien DO NOT SEND ORIGINAL DOCUMENTS If the documents are not available explain If the documents are voluminous, attach a summary

9 Date-Stamped Copy To receive an acknowledgement of the filing of your claim enclose a stamped self addressed envelope and copy of this proof of claim

FILED
AUG 1 4 2003
BMC

Date	Sign and print the name and title if any of the creditor or other person authorized to file this claim (attach copy of power of attorney if any)
	Attorney at Law

Exide Technologies
05359

Penalty for presenting fraudulent claim Fine of up to $500 000 or imprisonment for up to 5 years or both 18 USC §§ 152 and 3571

FORM B10 (Official Form 10)(4/98) m 0022751

P \FACT1\Leadlit\MCT\LEAD PSN\Exide Bankruptcy\Iowa\workers\Fountain doc

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August 13, 2003

VIA FEDERAL EXPRESS
USA AIRBILL #8409 6744 0185
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1330 East Franklin Avenue
P O Box 1063
El Segundo, California

RE Completed Exide Bankruptcy Claim Forms

Dear Sirs or Madam,

Enclosed please find the following

1 Completed claim forms for Personal Injury Claims for Burlington, Iowa with supporting documents (children of employees),
2 Completed claim forms for Personal Injury Claims for Burlington, Iowa with supporting documents (for prior employees),
3 Completed claim forms for Personal Injury Claims for Refine Metal of Memphis, TN with supporting documents (children of employees),
4 Completed claim forms for Property Damage Claims for Frankfort, Indiana with supporting documents

All supporting documents are being produce via CD ROM which is enclosed

Sincerely,

Nancy Schwartz
Paralegal to F J Jekel, Esquire

/ns
Attachments (Claim forms)
Enclosures (4 CD ROM)

EMPLOYEE GRIEVANCES

DATE	EMPLOYEE	NATURE OF GRIEVANCE
86.09.17	Michael John	problems with the pit; people track through the mud which moves lead dust thru the plant
86.09.21	Pasting Dept.	no clean water to hose excess paste
87.08.17	Pasting Dept.	reclaim pit not properly maintained; excess mud & water come up through the grates & gets tracked through the plant causing high lead hazard
87.11.23	Pasting Dept.	oxide run-off in walking areas
87.12.29	Pasting Dept.	plate manufacturing & gridcasting dept. not being properly cleaned; **BLL's going up in the dept. due to improper ventilation & leaving lead pots unattended**
89.05.23	Plate Manuf. Dept.	pig conveyor in lead reclaim area unsafe; brought to company's attention in last four safety meetings
90.10.12	Plate Manuf. Dept.	reclaim pot has little ventilation; safety work orders for strip lead racks aren't being completed
92.03.03		oxide leaks in mill blow over the room; oxide leaking from the auger and elevator; leak puts oxide on floor & in air
93.01.23	dynawrap dept.	screens on ventilation ducts & leak on turbine on dynawrap #4 were previously to have been fixed; operators being shocked by vacuum on clean-up; workers feels these problems may be contributing to their increased BLL's/
93.02.16	TTP	ventilation @ repair station line #1 doesn't work
93.03.18	Mac Pasting	operators made to stand in lead paste waste while working
93.04.22	Oxide Mill	company has failed to maintain a safe place of environment int he mill by not properly maintaining leaks of oxide which creates higher exposure levels of lead to employees
93.04.23	reclaim dept.	company failed to maintain a safe & clean environment in the reclaim system area to prevent exposure to wet lead paste
93.08.10		most of the fans in the annex don't work

93.08.12	dynawrap dept.	for many months all of the dynacast machines have had little or no ventilation resulted in increase in operator's BLL & lead in air samples
93.08.17		scrap conveyor for gridcast #4 isn't wide enough to handle scrap going into the lead pot so it builds up on the floor
93.09.24	dynawrap	several people on dynacasts have increased BLL's which the y feel is resulting from the lack of ventilation on the dynacasts
93.10.01		lift tables on dry line, initial fill & dyna wrap don't work properly & are leaking fuel
93.10.01		restrooms not in good shape; not enough toilet paper, paper towels or soap; trash isn't emptied on every shift
93.11.01		batteries from the annexes not being banded
93.11.01		no exhaust for drossing concast lead pot; every 2 hours concast lead pot is drossed in a 55 gallon barrel w/no ventilation
94.01.25		roof fan in annex B not adequate
94.02.10		men's handwash station needs repair as it leaks on the floor causing acid & oxide to be tracked form the changing room
94.04.29	Day Shift Pasting	no water in the reclaim tank when day shift comes on
94.07.08	oxide mill	since 3-94, there's been a serious leak in the vertical auger in the oxide mill
94.07.28	Pasting Dept.	608 reclaim pot has been brought to company's attention for the past year; repairs have not been made as promised
94.08.16	housekeeping	emergency exit door in men's shower needs to be replaced w/a regulation emergency door w/no handles on the outside of door
94.10.12	safety committee	ventilation at comcast pot not doing its job of removing smoke & fumes
94.10.13	Dynacast employees	employees have been experiencing burning eyes, headaches & a bad taste in the mouth for over a year

94.10.17	safety committee	company hasn't designed a system to contain the oxide to the mill area; outside door is used to cool the mills & is open all the time; south doors are also open most of the time & big holes in the south wall allow oxide to escape into the main plant. this practice is contributing to the increase in employees BLL's.
94.11.04	safety committee	unsanitary men's & women's locker rooms; proper cleaning not taking place & employees being allowed to eat & smoke
94.12.19		reclaim tank continues to have problems
95.03.06	safety committee	company requires weekend work however there is no one to clean work clothes, towels or lunchroom.
95.06.20	dynacast	baghouse #6 not working resulting in poor ventilation
95.08.22		heat index in the oxide mill; on 8-18-95 at 11:45 am heat index was 158 at level 3
95.11.08		substandard ventilation from pod sealer
96.10.29		strip cast cores stored in the oxide mill are already lead hazards to strip cast crews & all others in the area; oxide mill is a dangerous place to store anything that's to be used in the rest of the plant
97.03.04	annex personnel	Z wall ceiling fans; fans for proper ventilation in annex aren't being maintained
99.05.03	mixer operators	oxide leaks in joints & boots or socks in the mixer room; long standing problem which company has failed to attend to.
99.10.29		safety meetings not occurring as required by OSHA

EXIDE® CORPORATION

Randy Parker - President UAW Local 1829

02/19/99

RE: Grievance #98-40 Dated-11/10/98

MRP time for showers

3rd step meeting- 2/12/98

This grievance was written for two employees from the Day shift Dynacast department, Stan Seager and Jeff Kirby.

On the date specified, a discussion was held with the Supervisor regarding the time it took for the High Lead program "shower before lunch". The company had always paid 3/10ths (.3) which is from 13 to 18 minutes. This has been paid in addition to the 5 minute wash-up period that is included in the Incentive standard.

The Supervisor misunderstood the conversation and believed she was following instructions provided by the Factory Manager and the writer. Therefore, she reduced the time paid for the shower to 2/10ths (.2).

To resolve the misunderstanding, the employees in question will be paid .3 for their shower time from 11/6/98 until the Mid shift showers were discontinued.

Stan

J.L. Seitz,
Industrial Relations Mgr.

CC: Randy Brackett-Factory Manager
Rob Hyde- Reading

P.O. Box 516 Burlington, IA 52601 319/752-2713 FAX 319/752-8270

CITATIONS

2-19-91

issued by Iowa Division of Labor Services

1. pulleys w/ parts 7 ft. or less from the floor or work platform were not guarded in accordance with the requirements specified

2. horizontal belts which had both runs 7 ft or less from the floor level were not guarded with a guard that extended to at least 15 inches above the belt

4. where employees were exposed to injurious corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body were not provided w/I the work area for immediate er uses

5. exposed parts of horizontal shafting weren't protected by stationary casings enclosing shafting completely or by troughs enclosing sides & top or sides & bottom of shafting

6. vertical or inclined belts weren't enclosed by guards conforming to the requirements

7. sprocket wheels & chains which were 7 ft. or less above floors or platforms weren't enclosed

8. live parts of electric equipment operating at 50 volts or more weren't guarded against accidental contact by approved cabinets or other forms of approved enclosures

9. flexible cords weren't connected to devices & fittings so that tension wouldn't be transmitted to joints or terminal screws

10. fixtures installed in wet or damp locations weren't approved for the purpose & weren't so connected or installed that water couldn't enter or accumulate in wireways, lampholders or other electrical parts

1. places of employment weren't keep neat & orderly or in a sanitary condition

2. portable ladders were used at an improper pitch

3. employer didn't enforce the utilization of a means of compliance including but not limited to items a-d of this section to control hazardous energy

1-30-91

1. all surfaces weren't maintained as free as practicable of accumulations of lead
   (a) in the oxide mill area - employees were manufacturing lead oxide & dust was allowed

to accumulate on the piping, ducts & equipment surfaces. Heavy accumulations of lead oxide dust were observed at the in-feed conveyor to each mill.
(b) grid casting area - employees cast battery grids. battery grid plates & scrap metal had been allowed to accumulate. a layer of dust was visible on the floor and equipment around the lead pots, dross barrels, grid casting machines & throughout the entire casting area.
(c) mac pasting area - employees prepared pasted plates. the floor & machinery were covered with lead oxide paste. lead oxide paste & water was spilled from the wet roto-clone to the floor...lead paste when dry creates toxic lead dust when airborne.
(d) tek mac plate wrapping operations - tec mac wrapping employees wrap pasted battery plates. the equipment contains large amounts of waste dust & dried paste. dust may become airborne.
(e) assembly line near the intercell burn operation - large accumulations of floor sweepings & scrap were allowed to accumulate under the assembly line conveyor.

2. employer didn't ensure that each container of hazardous chemicals in the workplace is labeled, tagged or marked with the appropriate hazard warning & identity of the hazardous chemicals contained therein.

3. employer didn't have a material safety data sheet for each hazardous chemical used in the workplace.

11-27-89

1. protective eye equipment wasn't required where there was a reasonable probability of injury that could be prevented by such equipment.

2. the users of respirators weren't instructed & trained in the proper use of respirators & their limitations.

2-7-89

1. protective face equipment wasn't required where there was a reasonable probability of injury that could be prevented by such equipment.

2. employees were exposed to injurious corrosive materials, suitable facilities for quick drenching or flushing of the eyes & body weren't provided w/I the work area for immediate emergency use.

1. employer didn't ensure that each container of hazardous chemicals in the workplace was labeled, tagged or marked

5-16-88

1. respiratory protection program for employees exposed to lead wasn't instituted

2. replacement or repairs to respirators were not done only be experienced persons & using parts designed for the respirators

3. appropriate protective work clothing & equipment weren't used when employees were exposed to lead above the permissible exposure limit

Field Office 6
through Ben Hans

IOWA DEPARTMENT OF NATURAL RESOURCES
ADMINISTRATIVE ORDER

RECEIVED
OCT 6 1988
IOWA DEPARTMENT OF
NATURAL RESOURCES

IN THE MATTER OF:

Exide Corporation

ADMINISTRATIVE ORDER
No. 88-AQ-17

TO: Exide Corporation
c/o CT Corporation System
Registered Agent
2222 Grand Ave.
Des Moines, IA 50312

Exide Corporation
c/o Jack Pollard, Plant Mgr.
P.O. Box 516
Burlington, IA 52601

SUMMARY

This Order requires you to, in the future, obtain air construction permits prior to installation, construction, or modification of any air contaminant source, and to pay a penalty of $400.00.

JURISDICTION

This Order is issued pursuant to Iowa Code section 455B.134(9) and 455B.138(1) which authorize the director to issue any order necessary to prevent, abate or control air pollution and Iowa Code section 455B.109 and Chapter 567--10 (455B) Iowa Administrative Code (IAC) which authorize the director to assess administrative penalties.

FACTS

1. Exide Corporation (hereinafter Exide) is an Iowa corporation located in Burlington, Iowa, which manufactures lead-acid batteries for the new auto-truck-tractor industry and the replacement battery market.

2. On July 19, 1988, the Department received a permit application from Exide for four grid casting machines. Installation was stated to have been initiated on July 18, 1988.

To the Department's knowledge this equipment was not put into use until after the permit's issuance. However, by installing equipment prior to obtaining permits the company has avoided construction and operation delays. This saving warrants an additional penalty of $100.00.

APPEAL RIGHTS

In accordance with Iowa Code section 455B.138, you may appeal this Order by filing a written notice of appeal with the Director within 30 days. Upon appeal, the Environmental Protection Commission retains the authority to modify the penalty assessed herein, including the authority to request that the Attorney General institute an action to seek civil penalties pursuant to Iowa Code section 455B.146.

NONCOMPLIANCE

The Department retains authority to refer this matter to the Attorney General to enforce the provision of this Order if you do not appeal and fail to comply.

Any questions regarding this Order may be directed to:

Mark Landa
Legal Services
Iowa Department of Natural Resources
Henry A. Wallace Building
900 East Grand Avenue
Des Moines, Iowa 50319-0034
515/281-6243

LARRY J. WILSON, DIRECTOR
DEPARTMENT OF NATURAL RESOURCES

Sept. 29, 1988
DATE

IOWA DEPARTMENT OF WATER, AIR AND WASTE MANAGEMENT

APPLICATION AND PERMIT TO INSTALL OR ALTER EQUIPMENT OR CONTROL EQUIPMENT

Read Instructions on Reverse
Print In Ink or Typewrite

WAWM USE
Permit No. 88-A-183-S
Plant No. 29-01-048
Project No. 88-163

AIR QUALITY PROGRAM

RECEIVED DEC 19 1988 IOWA DEPARTMENT OF NATURAL RESOURCES

APPLICANT INFORMATION

1 FIRM NAME: EXIDE CORPORATION
2 PERSON TO CONTACT: CHUCK ROBERTSON
3 MAILING ADDRESS: P. O. Box 516
City: Burlington
State: Iowa
Zip Code: 52601
4 EQUIPMENT LOCATION ADDRESS: 3400 West Avenue

PROCESS OR SOURCE INFORMATION

5 TYPE: Plate wrapping and one four-machine grid casting bank. ☐ New ☐ Modification
6 CAPACITY (Pounds/Hour): 4800
6 CAPACITY (Tons/Year): 13,824
7 MAKE & MODEL: Two TEKMAX model 85 (One grandfathered (One transferred

POLLUTION CONTROL EQUIPMENT INFORMATION

8 TYPE: Fabric filter baghouse
9 EFFICIENCY: 99%
10 AIR FLOW RATE (SCFM): 15,500
11 MAKE & MODEL: Two (2) Tekmax model 85 plate wrappers and one (1) Wirtz grid casting bank with four (4) Model 40-C C/M casters and one (1) Wirtz Model GN-16.200 lead melting pot.
12 CONSTRUCTION SCHEDULE
Start Date: Spring 1989 ~~9/88~~
Completion Date: Spring 1989 ~~10/88~~
13 EMISSIONS (specify units)
Before Control: .044 gr/dscf
After Control: .00044 gr/dscf

ENGINEER SUBMITTING PLANS

14 NAME:
Phone:
Iowa P.E. Number:

CERTIFICATION

15 I am the owner or the owner's employee responsible for this installation.
Signature: Charles L. Roberton
Date: 9/13/88
Title: Eng. Mgr.
Phone: 319-752-2713

Supplamented December 1988

WAWM USE ONLY

$$S_e = \sum_{a=1}^{N} S_a \left(Q_{SD_a} / Q_{SD_t} \right)$$

This equipment has been evaluated for conformance with rule(s) 23.1(2)hh (NSPS Subpart 'KK') of the Iowa Water, Air and Waste Management Commission and found to have the potential to comply. This permit is issued subject to the conditions listed on the reverse.

Under Direction of the Executive Director

PROGRAM OPERATIONS DIVISION

RECORD COPY
File Name Exide Corporation — Burlington
Senders Initials MH

Michael Hayward

Date October 5, 1988

WAWM form 6 (Jul 1, 83) (Replaces DEQ Forms AQ-B and AQ-1T, which may not be used) 5300190

IOWA DEPARTMENT OF WATER, AIR AND WASTE MANAGEMENT

APPLICATION AND PERMIT TO INSTALL OR ALTER EQUIPMENT OR CONTROL EQUIPMENT

RECEIVED
OCT 1 1988
IOWA DEPARTMENT OF NATURAL RESOURCES

Read Instructions on Reverse
Print in Ink or typewrite

WAWM USE
Permit No. 88-A-183
Plant No. 29-01-048
Project No. 88-163

AIR QUALITY PROGRAM

APPLICANT INFORMATION

1 FIRM NAME: EXIDE CORPORATION
2 PERSON TO CONTACT: CHUCK ROBERTSON
3 MAILING ADDRESS: P. O. Box 516
City: Burlington
State: Iowa
Zip Code: 52601
4 EQUIPMENT LOCATION ADDRESS: 3400 West Avenue

PROCESS OR SOURCE INFORMATION

5 TYPE: Battery plate wrapping
☐ New ☐ Modification
6 CAPACITY (Pounds/Hour): 4800
6 CAPACITY (Tons/Year): 13,824
7 MAKE & MODEL: Two TEKMAX model 85 (One grandfathered (One transferred

POLLUTION CONTROL EQUIPMENT INFORMATION

8 TYPE: Fabric filter baghouse
9 EFFICIENCY: 99%
10 AIR FLOW RATE (SCFM): 15,500
11 MAKE & MODEL: Mikro Pul model 221S10-20TRH
12 CONSTRUCTION SCHEDULE: Start Date: 9/88; Completion Date: 10/88
13 EMISSIONS (specify units): Before Control: .044 gr/dscf; After Control: .00044 gr/dscf

ENGINEER SUBMITTING PLANS

14 NAME:
Phone:
Iowa P.E. Number:

CERTIFICATION

15 I am the owner or the owner's employee responsible for this installation.
Signature: Charles L. Robertson
Date: 9/13/88
Title: Eng. Mgr.
Phone: 319-752-2713

WAWM USE ONLY (0.00044 gr/dscf)

This equipment has been evaluated for conformance with rule(s) 23.1(2)hh of the Iowa Water, Air and Waste Management Commission and found to have the potential to comply. This permit is issued subject to the conditions listed on the reverse.

Under Direction of the Executive Director

PROGRAM OPERATIONS DIVISION

Michael Hayward
Date October 5, 1988

WAWM form 6 (Jul 1, 83) (Replaces DEQ Forms AQ-8 and AQ-17, which may not be used) 5300190

RECEIVED

IOWA DEPARTMENT OF WATER, AIR AND WASTE MANAGEMENT

DEC 1988

IOWA DEPARTMENT OF NATURAL RESOURCES

APPLICATION AND PERMIT TO INSTALL OR ALTER EQUIPMENT OR CONTROL EQUIPMENT

Read Instructions on Reverse

Print in Ink or typewrite

AIR QUALITY PROGRAM

WAWM USE
Permit No. 88-A-217
Plant No. 29-01-048
Project No. 88-163

APPLICANT INFORMATION

1 FIRM NAME: EXIDE CORPORATION

2 PERSON TO CONTACT: CHUCK ROBERTSON

3 MAILING ADDRESS: P. O. Box 516 | City: Burlington | State: Iowa | Zip Code: 52601

4 EQUIPMENT LOCATION ADDRESS: 3400 West Avenue

PROCESS OR SOURCE INFORMATION

5 TYPE: Battery paste mixer ☐ New ☐ Modification

6 CAPACITY (Pounds/Hour): 4800 (Tons/Year): 10,360

7 MAKE & MODEL: Ox-Master paste mixer (existing)

POLLUTION CONTROL EQUIPMENT INFORMATION

8 TYPE: American Air Filter Roto-Clone

9 EFFICIENCY: 97.5%

10 AIR FLOW RATE (SCFM): 4500 cfm

11 MAKE & MODEL: Size 6, type N with size 15 exhauster

12 CONSTRUCTION SCHEDULE: Start Date: 10/15/88 | Completion Date: 11/15/88

13 EMISSIONS (specify units): Before Control: .0176 gr/dscf | After Control: .00044 gr/dscf

ENGINEER SUBMITTING PLANS

14 NAME | Phone | Iowa P.E. Number

CERTIFICATION

15 I am the owner or the owner's employee responsible for this installation.

Signature: Charles L. Robertson | Date: 9/13/88 | Title: Eng. Mgr | Phone: 319-752-2

WAWM USE ONLY

This equipment has been evaluated for conformance with rule(s) 1.12 lb m hr^{-1} of the Iowa Water, Air and Waste Management Commission and found to have the potential to comply. This permit is issued subject to the conditions listed on the reverse.

Under Direction of the Executive Director

PROGRAM OPERATIONS DIVISION

RECEIVED

DEC 29 1988

IOWA DEPARTMENT OF NATURAL RESOURCES

Michael Hayward

Date December 22, 1988

WAWM form 6 (Jul 1, 83) (Replaces DEO Forms AQ-8 and AQ-17, which may not be used) 5300190

DK

IOWA DEPARTMENT OF NATURAL RESOURCES

AIR QUALITY SECTION

APPLICATION AND PERMIT TO INSTALL OR ALTER EQUIPMENT OR CONTROL EQUIPMENT

Read Instructions on Reverse
Print in Ink or Typewrite

DNR USE
Permit No. 88-A-201
Plant No. 29-01-048
Project No. 88-189

APPLICANT INFORMATION

1 FIRM NAME: EXIDE CORPORATION

2 PERSON TO CONTACT: Chuck Robertson

3 MAILING ADDRESS: P. O. Box 516

City: Burlington

State: Iowa

Zip Code: 52601

4 EQUIPMENT LOCATION ADDRESS: 3400 West Avenue

RECEIVED
NOV 7 1988
IOWA DEPARTMENT OF NATURAL RESOURCES

PROCESS OR SOURCE INFORMATION

5 TYPE: 7' X 48" Conical lead oxide mill

[ ] New [X] Modification

7 MAKE & MODEL: Koppers-Hardinge mill

6 CAPACITY (Pounds/Hour): 2000

(Tons/Year): 5800

POLLUTION CONTROL EQUIPMENT INFORMATION

8 TYPE: Fabric filter dust collector

9 EFFICIENCY: 99%

10 AIR FLOW RATE (SCFM): 1500 CFM

11 MAKE & MODEL: Mikropul model 64S-8-20

12 CONSTRUCTION SCHEDULE
Start Date: 12/88
Completion Date: 3/89

13 EMISSIONS (specify units)
Before Control: .078 gr/dscf
After Control: .00078 gr/dscf. (.010 lb/ton)

ENGINEER SUBMITTING PLANS

14 NAME:

Phone:

Iowa P.E. Number:

CERTIFICATION

15 I am the owner or the owner's employee responsible for this installation.

Signature: Charles L Robertson

Date: Oct. 21, 1988

Title: Engineering Manager

Phone: 319-752-271

DNR USE ONLY

This equipment has been evaluated for conformance with rule(s) 567--23.1(2)hh (NSPS-KK) (0.010 lb lead per ton of lead feed) of the Iowa Natural Resources Commission and found to have the potential to comply. This permit is issued subject to the conditions listed on the reverse.

Under Direction of the Director

ENVIRONMENTAL PROTECTION DIVISION

Michael Hayward

Date November 2, 1988

DNR form 6 (Sep 87)

542-3190

IOWA DEPARTMENT OF NATURAL RESOURCES

AIR QUALITY SECTION

APPLICATION AND PERMIT TO INSTALL OR ALTER EQUIPMENT OR CONTROL EQUIPMENT

Read Instructions on Reverse
Print in Ink or Typewrite

DNR USE
Permit No. 89-A-133
Plant No. 29-01-048
Project No. 89-092

APPLICANT INFORMATION

1 FIRM NAME: EXIDE CORPORATION
2 PERSON TO CONTACT: David Moser
3 MAILING ADDRESS: P. O. Box 516
City: Burlington
State: Iowa
Zip Code: 52601
4 EQUIPMENT LOCATION ADDRESS: 3400 West Avenue

PROCESS OR SOURCE INFORMATION

5 TYPE: Battery paste mixer
[X] New [ ] Modification
6 CAPACITY (Pounds/Hour): 4800
(Tons/Year): 10,360
7 MAKE & MODEL: Beardsley & Piper Model 55 Series II Compounder

POLLUTION CONTROL EQUIPMENT INFORMATION

8 TYPE: American Air Filter Roto-Clone
9 EFFICIENCY: 97.5%
10 AIR FLOW RATE (SCFM): 4500 cfm
11 MAKE & MODEL: Size 6, type N with #15 exhauster
12 CONSTRUCTION SCHEDULE
Start Date: 6/24/89
Completion Date: 8/1/89
13 EMISSIONS (specify units)
Before Control: .0176 gr/dscf
After Control: .000049 gr/dscf

ENGINEER SUBMITTING PLANS

14 NAME:
Phone:
Iowa P.E. Number:

CERTIFICATION

15 I am the owner or the owner's employee responsible for this installation.
Signature: David Moser
Date: 5-18-89
Title: Engineering Manager
Phone: 319-752-271

DNR USE ONLY

This equipment has been evaluated for conformance with rule(s) 1.12 $lb_m hr^{-1}$ of the Iowa Natural Resources Commission and found to have the potential to comply. This permit is issued subject to the conditions listed on the reverse.

RECEIVED
JUN 19 1989
IOWA DEPARTMENT OF NATURAL RESOURCES

Under Direction of the Director

ENVIRONMENTAL PROTECTION DIVISION

Michael Hayward
Date June 15, 1989

DNR form 6 (Aug 88)

542-3190

STATE OF
IOWA

TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
LARRY J. WILSON, DIRECTOR

cds

1200
97
CA

May 31, 1990

RECORD COPY Con 10-1
File Name Exide Corp. - Burlington
Senders Initials bs

Mr. Michael Jarvis
Exide Corporation
P.O. Box 516
Burlington, IA 52601

SUBJECT: Lead-Acid Battery Manufacturing
Dynacast Machines 9 and 10
NSPS Permit 90-A-198

Dear Mr. Jarvis:

This letter is in response to your request for one (1) permit to install or alter equipment or control equipment. Subrule 567--22.1(1) of the Iowa Administrative Code requires that each person planning to install, reconstruct, construct or alter equipment or control equipment capable of emitting air contaminants, must obtain a permit from this department before the start of construction.

Your proposal was to install two (2) strap casting machines, having direct ventilation discharge, with no provision for emissions control. It is understood that emissions from the source will be subject to Federal New Source Performance Standards (NSPS), Subpart KK, lead-acid battery manufacturing plants. A permit identified as 90-A-198 has been written for this source, with the following conditions as part of the agreement.

ADDITIONAL PERMIT CONDITIONS

1. All applicable requirements of Section 23.1(2) of the rules of the Environmental Protection Commission, New Source Performance Standards and Procedures shall be requirements of this permit. Standard provisions on this permit will be superseded by any conflicting requirements of 23.1(2).

2. Notification specified in 23.1(2) shall be to both this department and the Federal Environmental Protection Agency (EPA), Region VII, Kansas City, Kansas. However, EPA has agreed that reports required pursuant to 40 CFR 60.7(c) (excess emission and malfunctions) need only be submitted to this department. Reports submitted pursuant to 23.1(2) of the rules of the Environmental Protection Commission will not exempt the source owner or operator from reporting abnormal conditions, breakdowns, or emergency maintenance as specified in Subrules 24.1(2) and 24.1(3).

3. Emissions tests for lead shall be in compliance with the methods specified in 23.1(2) of the Environmental Protection Commission. The tests shall be made within sixty (60) days after initial start-up.

4. Evaluation indicates that the design of this equipment may allow emissions that are near and can possible exceed the level permitted by law. The owner is cautioned to allow space for the addition of equipment which may be required to comply with the law.

One (1) copy of the permit has been enclosed for your records.

Sincerely,

for Bedford A. Walker

MICHAEL HAYWARD
AIR QUALITY SECTION

(MH-151A.MS)

Enclosure

cc: Field Office 6

cas 1200
91

IOWA DEPARTMENT OF NATURAL RESOURCES

AIR QUALITY SECTION

APPLICATION AND PERMIT TO INSTALL OR ALTER EQUIPMENT OR CONTROL EQUIPMENT

Read Instructions on Reverse
Print in Ink or Typewrite

DNR USE
Permit No. 90-A-198
Plant No. 29-01-048
Project No. 90-119

APPLICANT INFORMATION

1 FIRM NAME: EXIDE CORPORATION

2 PERSON TO CONTACT: MIKE JARVIS

3 MAILING ADDRESS: P.O. BOX 516

City: BURLINGTON | State: IOWA | Zip Code: 52601

4 EQUIPMENT LOCATION ADDRESS: 3400 WEST AVENUE

PROCESS OR SOURCE INFORMATION

5 TYPE: CAST ON STRAP MACHINE [ ] New [ ] Modification XX USED

6 CAPACITY (Pounds/Hour): 125 EA. | (Tons/Year): 360 EA.

7 MAKE & MODEL: TWO (2) DYNACAST MODEL# 5 MACHINES

POLLUTION CONTROL EQUIPMENT INFORMATION

8 TYPE: NONE-DIRECT DISCHARGE

9 EFFICIENCY: - -

10 AIR FLOW RATE (SCFM): 12000

11 MAKE & MODEL: AEROVENT MODEL B1-630

12 CONSTRUCTION SCHEDULE
Start Date: 7-9-90 | Completion Date: 7-20-90

13 EMISSIONS (specify units)
Before Control: <.00044 | After Control:

ENGINEER SUBMITTING PLANS

14 NAME: MICHAEL S. JARVIS | Phone (319) 752-2713 | Iowa P.E. Number:

CERTIFICATION

15 I am the owner or the owner's employee responsible for this installation.

Signature: J B Pollard | Date: 5/23/90 | Title: PLANT MGR | Phone: 319-752-2713

DNR USE ONLY

This equipment has been evaluated for conformance with rule(s) 0.00044 grain/DSCF NSPS Subpart 'KK' 23.1(2)hh of the Iowa Natural Resources Commission and found to have the potential to comply. This permit is issued subject to the conditions listed on the reverse.

Under Direction of the Director

ENVIRONMENTAL PROTECTION DIVISION

Michael Hayward

Date June 7, 1990

DNR form 6 (Sep 87)

542-3190

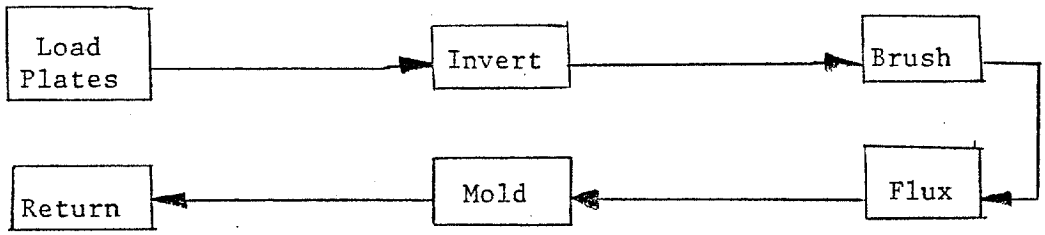
1 - DESCRIPTION:

Two (2) cast-on-strap machines (Dynacast) to be vented through a common exhaust fan and associated duct work. Both Dynacast #9 and #10 will be model 5 machines (27" mold width) replacing the existing model 2 machines (18" mold width). Dynacast machine consists of a plate conveying system, mold station and lead pot.

Stacked plates (elements) are inserted into a basket at front of machine by the operator. The basket is clamped and inverted then pushed onto the machine's conveying system. The machine automatically cycles through the following steps:

A - Lugs on the plates are brushed by a revolving brush.
B - Lugs are dipped into liquid flux.
C - Lugs dipped into molten lead in strap mold. Lead is cooled to form a strap which bonds plates together.
D - Plates are ejected and basket returns to operators station to be emptied and reloaded.

FLOW DIAGRAM



2 - SYSTEM DRAWING - See attachment #1.

3 - CATALOG DATA - No control equipment used.

4 - DESIGN CALCULATIONS:

Installation duplicates six (6) existing installations.

5 - PLOT PLAN - See attachment #1 and #2.

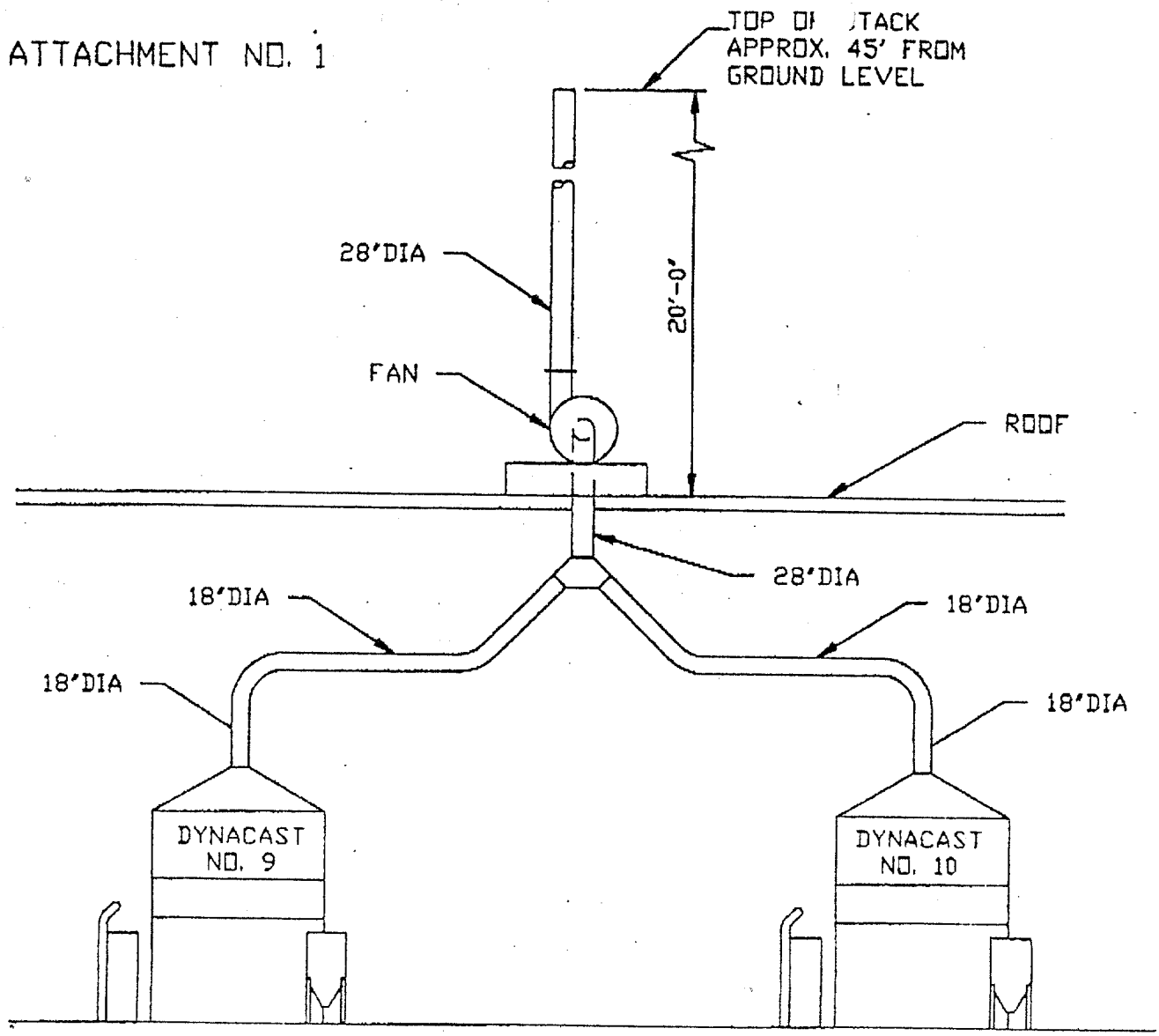
6 - ESTIMATE OF EMISSIONS:

A- Mass emission $<$.58 lb/hr. estimate
B- 12,000 cfm
C- Gas temp. 125° F
D- Stack diameter - 28 in.
Stack height - 20 ft.

7 - Stack testing parameters to be supplied before testing begins.

8 - No existing control equipment to be replaced.

ATTACHMENT NO. 1



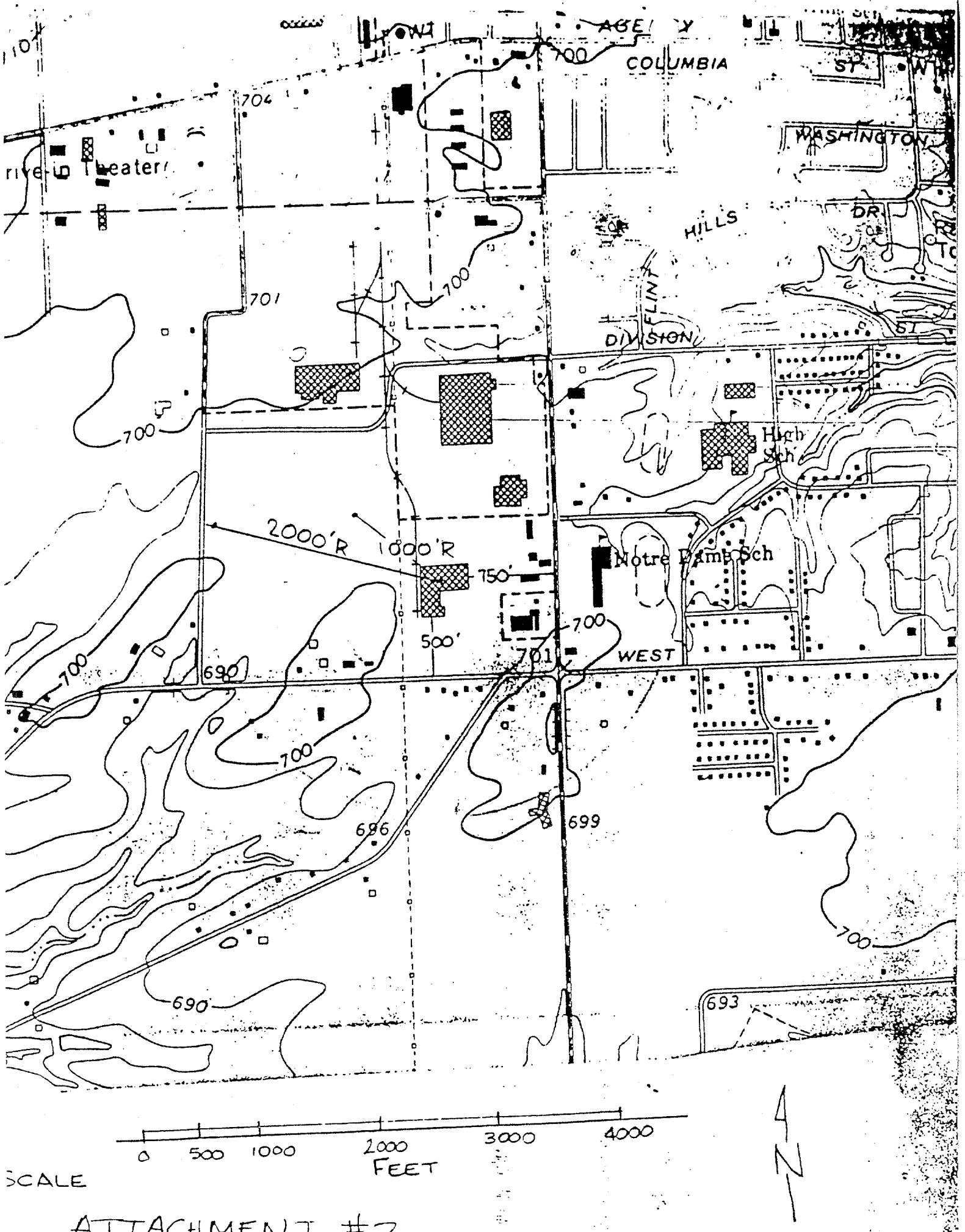
FAN

AEROVENT MODEL NO. 630BI
CFM: 12000 HP.: 20
S.P.: 6"S.P. RPM: 1750

HOODS	NO. 9	NO. 10
DIMENSION:	3'-0" X 6'-6"	3'-0" X 6'-6"
AREA:	19.5 SQ. FT.	19.5 SQ. FT.
TOTAL AREA:	39.0 SQ. FT.	

DATE: 5/22/90
NOT TO SCALE

DYNACAST NO. 9 & 10
VENTILATION



ATTACHMENT #2

ATTACHMENT 14

SUMMARY OF LEAD TEST RESULTS

Exhaust System for #11 and #12 Cast On Strap Machines

	Lead	Total Particulate
Test 1:	0.00033 gr/scf	0.0077 gr/scf
Test 2:	0.00038 gr/scf	0.0050 gr/scf
Test 3:	0.00034 gr/scf	0.0051 gr/scf
Average of Tests:	0.00035 gr/scf	0.0051 gr/scf

Allowable Emissions: 0.00044 gr/scf

Stack Gas Cross Sectional Area: 4.28 ft^2

Stack Gas Flow Rate - Average: 11,928 ACFM

Stack Gas Temperature - Average: 97°F

EXIDE CORPORATION

May 23, 1990

Mr. Michael Hayward
Iowa Dept. of Natural Resources
Air Quality Section
Wallace State Office Building
Des Moines, Ia. 50319

Dear Mr. Hayward:

Submitted with this letter is a permit application for replacing two (2) of our existing Dynacast machines with wider chassis Dynacast machines from another location.

This installation is similar to the installation on permit number ~~86-A-122~~ 86-A-127. Results of the stack test on the above permit has been attached.

Very Truly Yours,
Exide Corporation

Michael S. Jarvis

Michael S. Jarvis
Sr. Industrial Engineer

MSJ/pgh
5-23-90

3400 West Avenue Burlington, IA 52601 319/752-2713 TWX 910-526-1130

RECEIVED
AUG 27 1990
IOWA DEPARTMENT OF NATURAL RESOURCES

JCB

IOWA DEPARTMENT OF NATURAL RESOURCES

AIR QUALITY SECTION

APPLICATION AND PERMIT TO INSTALL OR ALTER EQUIPMENT OR CONTROL EQUIPMENT

Read Instructions on Reverse
Print in Ink or Typewrite

DNR USE
Permit No. 90-A-295
Plant No. 29-01-048
Project No. 90-164

APPLICANT INFORMATION

1 FIRM NAME: EXIDE CORPORATION

2 PERSON TO CONTACT: MICHAEL JARVIS

3 MAILING ADDRESS: P.O. BOX 516

City: BURLINGTON

State: IOWA

Zip Code: 52601

4 EQUIPMENT LOCATION ADDRESS: 3400 WEST AVENUE

PROCESS OR SOURCE INFORMATION

5 TYPE: MANUAL LEAD WELDING PROCESS - SIDE TERMINAL BATTERIES

[ ] New
[ ] Modification
x Reinstatement

6 CAPACITY (Pounds/Hour): 72

(Tons/Year): 35

7 MAKE & MODEL: N/A

POLLUTION CONTROL EQUIPMENT INFORMATION

8 TYPE: FABRIC FILTER BAGHOUSE

9 EFFICIENCY: 99%

10 AIR FLOW RATE (SCFM): ~~15,500~~ 4500 cfm

8-21-90 MH

11 MAKE & MODEL: MIKROPUL MODEL 81-S, 8-20

12 CONSTRUCTION SCHEDULE
Start Date: SEPT. 3, 1990
Completion Date: SEPT. 11, 1990

13 EMISSIONS (specify units)
Before Control: .044 gr/dscf
After Control: .00044 gr/dscf

ENGINEER SUBMITTING PLANS

14 NAME:

Phone:

Iowa P.E. Number:

CERTIFICATION

15 I am the owner or the owner's employee responsible for this installation.

Signature: J B Pollard

Date: 7/31/90

Title: PLANT MGR

Phone: 319-752-2713

DNR USE ONLY

This equipment has been evaluated for conformance with rule(s) 0.00044 grain per DSCF NSPS Subpart 'KK' 23.1(2)hh of the Iowa Natural Resources Commission and found to have the potential to comply. This permit is issued subject to the conditions listed on the reverse.

Under Direction of the Director

ENVIRONMENTAL PROTECTION DIVISION

Michael Hayward

Date August 21, 1990

Printed on Recycled Paper

STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR
CERTIFIED MAIL

DEPARTMENT OF NATURAL RESOURCES
LARRY J. WILSON, DIRECTOR

RECEIVED
FEB 4 1991
IOWA DEPARTMENT OF NATURAL RESOURCES

1/30/91

Mr. Mike Jarvis
Exide Corporation
3400 West Avenue
Burlington, Iowa 52601

Re: Compliance Test Results
Dynacast 1 & 2, Permit No. 90-A-199

Dear Mr. Jarvis:

The test report received 12/21/90 for the lead compliance tests conducted 11/6/90 and 11/7/90 on the above-mentioned source has been reviewed. Although these two units have a common stack, each machine was tested separately. This was to determine the emissions from each due to the previous failure when tested together.

This report is acceptable for the purpose of demonstrating that Dynacast 1 was operating in violation of the emission standard of 0.00044 grains per standard cubic foot (gr/scf) of exhaust gas as found in 40 CFR 60.372 and IAC 567.23.1(2)hh. The average tested emission rate was 0.00076 gr/scf or 173% of the standard. Any further operation of this unit will be in violation of the regulations.

Dynacast 2 was found to be in compliance. The average tested emission rate was 0.00029 gr/scf or 66% of the standard.

In our letter dated 9/28/90, you indicated that should this source fail, you intended to duct the emissions to a baghouse. This change requires that a permit amendment be submitted for this source. You are reminded that the permit must be obtained before this modification is made.

If you have any questions regarding this matter, please feel free to call.

Sincerely,

David A. Phelps

DAVID PHELPS
AIR QUALITY SECTION
AIR QUALITY AND SOLID WASTE PROTECTION BUREAU

cc: Michael Hayward
Douglas Campbell
F.O. 6
Donna Dees, USEPA, Air Compliance Branch, Kansas City, KS

SUMMARY OF RESULTS

EXIDE CORPORATION

BURLINGTON, IOWA

DYNACAST #1

LEAD EMISSION SUMMARY

TEST #	DATE	LEAD EMISSIONS (lb/hr)	LEAD EMISSIONS (gr/dscf)	FLOW RATE (ACFM)
1	11/7/90	0.034	0.00093	4,846
2	11/7/90	0.026	0.00065	5,356
3	11/7/90	0.028	0.00073	5,136
AVERAGE:		0.029	0.00077	5,113

Stack Gas Average Velocity: 22.2 ft/sec
Stack Gas Average Temperature: 147.8°F
Stack Gas Average Moisture: 1.2%

40 CFR part 60 subpart KK allows 0.00044 grains/dry standard cubic foot (gr/dscf) for other "lead emitting operations".

During the period in which the tests were performed, the source did not meet the lead standard and is in not compliance with the State of Iowa permit limitations.

SUMMARY OF RESULTS

The following tables present a summary of the lead emissions tests performed by Beling. Six tests were performed.

EXIDE CORPORATION

BURLINGTON, IOWA

DYNACAST #2

LEAD EMISSION SUMMARY

TEST #	DATE	LEAD EMISSIONS (lb/hr)	LEAD EMISSIONS (gr/dscf)	FLOW RATE (ACFM)
1	11/6/90	0.014	0.00036	5,182
2	11/6/90	0.010	0.00025	5,187
3	11/6/90	0.011	0.00026	5,186
AVERAGE:		0.012	0.00029	5,185

Stack Gas Average Velocity: 22.6 ft/sec
Stack Gas Average Temperature: 125.8^{o}F
Stack Gas Average Moisture: 1.0%

40 CFR part 60 subpart KK allows 0.00044 grains/dry standard cubic foot (gr/dscf) for other "lead emitting operations".

During the time in which the tests were performed, the source met the lead standard and is in compliance with the State of Iowa permit limitations.

CHART #1

PARTICULATE AND LEAD EMISSIONS SUMMARY

PROCESS	# PART/HOUR	# PART/YEAR	# LEAD/HOUR	# LEAD/YEAR
GRID CAST				
(6) SHEPPARDS	.300	2628	.0739	647
(3) WIRTZ	.176	1542	.0432	378
(4) WIRTZ	.0026	23	.0006	5
LEAD OXIDE PROCESS BAG HOUSES				
NO. 1	.0286	251	.0172	151
NO. 2	.0286	251	.0172	151
PASTING				
LINE 1	.0155	136	.0090	79
LINE 2	.0244	214	.0140	123
LINE 3	.0119	104	.0069	60
STRIP CASTING	.0135	118	.0033	29
POST BURN	.0415	363	.0048	42
TOP & SIDE	.0001	1	.00001	1
WRAP/STACK	.1125	986	.0129	113
CAST-ON-STRAP	3.5439	31044	.2166	1897
TTP	.1289	1129	.0148	130
LEAD RECLAIM	.0475	416	.0045	39
VOC'S	.1061	929	-	-
FORMATION	1.296	11353	-	-
VENTILATION	.301	2637	.0602	527
VACUUMS	.0308	270	.0077	67
HYDROSET	.3340	2926	.0069	60
TOTALS	**6.5434**	**57321**	**.51371**	**4499**

TOTAL TONS/YEAR **PARTICULATE 28.66** **Pb 2.25**

IOWA DEPARTMENT OF NATURAL RESOURCES

AIR QUALITY SECTION

JLB

APPLICATION AND PERMIT TO INSTALL OR ALTER EQUIPMENT OR CONTROL EQUIPMENT

Read Instructions on Reverse
Print in Ink or Typewrite

RECEIVED
JUN 7 1991
IOWA DEPARTMENT OF NATURAL RESOURCES

DNR USE
Permit No. 91-A-017
Plant No. 29-01-048
Project No. 91-017

APPLICANT INFORMATION

1 FIRM NAME: EXIDE CORPORATION

2 PERSON TO CONTACT: MIKE JARVIS

3 MAILING ADDRESS: P.O. BOX 516 | City: BURLINGTON | State: IA. | Zip Code: 52601

4 EQUIPMENT LOCATION ADDRESS: 3400 WEST AVENUE

PROCESS OR SOURCE INFORMATION

5 TYPE: 3 CAST ON STRAP MACHINES: Dyna cast 1, 2 & 15 | [ ] New [ ] Modification | 6 CAPACITY (Pounds/Hour): 125 | (Tons/Year): 360EA.

7 MAKE & MODEL: TWO DYNACAST MODEL 75's [X] USED

(ONE MACHINE IS CURRENTLY INSTALLED)

POLLUTION CONTROL EQUIPMENT INFORMATION

8 TYPE: FABRIC FILTER BAG HOUSE | 9 EFFICIENCY: 99% | 10 AIR FLOW RATE (SCFM): ~~30,000~~ 20,000

11 MAKE & MODEL: CARTER-DAY - MODEL 376-RFH-8

12 CONSTRUCTION SCHEDULE: Start Date: ASAP | Completion Date: APRIL 1, 1991

13 EMISSIONS (specify units) (GR/DSCF): Before Control (GR/DSCF): DYNA. #1 - .00077; DYNA. #15 -.00060 (EST) | After Control: .00000295

ENGINEER SUBMITTING PLANS

14 NAME | Phone | Iowa P.E. Number

CERTIFICATION

15 I am the owner or the owner's employee responsible for this installation.

Signature: J. Pollard | Date: 2/6/91 | Title: PLANT MGR | Phone: 319-753-2713

DNR USE ONLY

0.00044 grain/DSCF Lead

This equipment has been evaluated for conformance with rule(s) 23.1(2)hh; NSPS Subpart KK of the Iowa Natural Resources Commission and found to have the potential to comply. This permit is issued subject to the conditions listed on the reverse.

Under Direction of the Director

ENVIRONMENTAL PROTECTION DIVISION

Michael Hayward

Date May 29, 1991

DNR form 6 (Sep 87)

542-319

STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
LARRY J. WILSON, DIRECTOR

CERTIFIED MAIL

March 25, 1992

RECEIVED
APR 3 1992
IOWA DEPARTMENT OF NATURAL RESOURCES

Mr. Michael Jarvis
Exide Corporation
3400 West Avenue
Burlington, Iowa 52601

Re: Lead Compliance Test Results
Dynacast Machines 1, 2, 15
Permit No. 91-A-017

PERMIT AMENDMENT

Dear Mr. Jarvis:

The report received 11/12/91 for the test conducted 9/25/91 on the above-mentioned source has been reviewed. This report is acceptable for the purpose of demonstrating this source to be operating in compliance with the lead emission standard of 0.00044 grains per standard cubic foot (gr/scf). The average tested emission rate was 0.00039 gr/scf or 89% of the standard. The average opacity during the three hours of observations was 0%.

The average production levels of the three sources during these tests was 87% of capacity. Because the emission rate was close to the standard and the source was operating below capacity, there is the possibility that production at full capacity will cause a violation of the emission standard. This is confirmed by extrapolating the emission rate up to full capacity. Because of this, these sources are hereby limited to operating at the levels demonstrated during the stack test. Unit 1 was operating at 133 pounds per hour (lbs/hr), Unit 2 at 109 lbs/hr, and Unit 15 at 128 lbs/hr.

If you have any questions regarding this matter, please feel free to call.

Sincerely,

David Phelps

DAVID PHELPS
AIR QUALITY SECTION
AIR QUALITY AND SOLID WASTE PROTECTION BUREAU

cc: F.O. 6
Michael Hayward

Table 2-1

SUMMARY OF TEST RESULTS

Run No.	Opacity (%)	Quantity Lead Found (ug)	Stack Gas Sample Volume (dscm)	Stack Flow (dscm/min)	Emission (lb/hr)	Lead Emission (grains/dscf)
1	0	852.66	1.147	699	0.0687	3.25×10^{-4}
2	0	1025.92	1.185	716	0.0821	3.78×10^{-4}
3	0	1039.92	1.156	700	0.0833	3.93×10^{-4}

.000853 g

Table 2-2

SAMPLING TRAIN RESULTS

Parameters	Run 1	Run 2	Run 3
Sample Time (min)	80	80	80
Sample Volume (dscm)	1.147	1.185	1.156
Oxygen (%)	20.8	20.7	20.3
Carbon Dioxide (%)	0	0	0
Water (%)	2.0	1.9	1.6
Stack Temp. Avg. (°F)	97	101	103
Isokinetic (%)	98.9	99.8	99.5
Actual Flow Rate (acfm)	27,254	28,035	27,470
Stack Flow Rate (dscf/min)	24,694	25,290	24,729
Stack Flow Rate (dscm/min)	699	716	700

STATE OF IOWA
TERRY E. BRANSTAD, GOVERNOR
DEPARTMENT OF NATURAL RESOURCES
LARRY J. WILSON, DIRECTOR

Sept. 11, 1995

Mr. Gary Drees
Environmental and Safety Coordinator
Exide Battery Corporation
South 10 Street
Manchester, IA 52057

Certified Mail
Notice of Violation

RE: Compliance Testing
Plant No. 28-01-004

Dear Mr. Drees:

The test report received July 3, 1995, for the testing conducted April 5-May 17, 1995, has been reviewed. Violations were found. A list of the sources out of compliance is below.

Source	Permit No.	Pollutant	Limit (gr/dscf)	Result (gr/dscf)	Limit (lb/hr)	Result (lb/hr)
#33 Rotoclone Scrubber	93-A-109-2S	Pb	0.000352	0.00042	0.072	0.061
#46 Fabric Filter Baghouse	94-A-454-1S	PM10	0.00385	0.0043	1.057	1.02
#47 Fabric Filter Baghouse	94-A-455-2S	PM10	0.00898	0.0126	2.31	2.59
#50 Wirtz Baghouse	94-A-235-3S	PM10	-	0.0037	0.735	0.74
#55 Carter Day 2	93-A-107-2S	PM10	0.00384	0.0059	0.774	0.93
#56 Fabric Filter Baghouse	93-A-108-2S	Pb	0.00044	0.00058	0.158	0.11
#60 Fabric Filter Baghouse	94-456-1S	PM10	0.00384	0.0099	1.05	2.37

If it is felt that these tests are not representative, a retest may be an option.

SUMMARY OF LEAD TEST RESULTS

Exhaust System for #11 and #12 Cast On Strap Machines

	Lead	Total Particulate
Test 1:	0.00033 gr/scf	0.0077 gr/scf
Test 2:	0.00038 gr/scf	0.0050 gr/scf
Test 3:	0.00034 gr/scf	0.0051 gr/scf
Average of Tests:	0.00035 gr/scf	0.0051 gr/scf

Allowable Emissions: 0.00044 gr/scf

Stack Gas Cross Sectional Area: 4.28 ft^2

Stack Gas Flow Rate - Average: 11,928 ACFM

Stack Gas Temperature - Average: 97°F

Dynacast 11 & 12

12-04-86

Dynacast 13 before the addition of 14
12-21-87

SUMMARY OF LEAD TEST RESULTS

Exhaust System for #13 Cast On Strap Machines

	Lead	Total Particulate
Test 1:	0.0003 gr/scf	0.004 gr/scf
* Test 2:	0.0006 gr/scf	0.003 gr/scf
Test 3:	0.0004 gr/scf	0.013 gr/scf
Average of Tests:	0.0004 gr/scf	0.007 gr/scf
Allowable Emissions:	0.00044gr/scf	

Stack Gas Cross Sectional Area: 4.28 ft^2

Stack Gas Flow Rate - Average: 12123 ACFM

Stack Gas Temperature - Average: 95°F

*Above Allowable

SUMMARY OF TEST RESULTS

Test #	mg^{Pb}/m^3	gr^{Pb}/scf	Total Particulate
1	1.52	0.000665	0.63
2	2.69	0.001176	0.45
3	1.76	0.000767	0.29
Average	1.99	0.000869	0.46

Temperature of Stack Gas - Average: 165.9°F

Area of Stack: 3.48 ft^2

Volumetric Flow Rate - Average: 5591.66 ACFM

Grid cast Bank 3 Failed (Before being put on Baghouse

10-04-88

Beling Consultants

October 27, 1988

Mr. Charles Robertson
Exide Battery Company
3400 West Avenue
P.O. Box 516
Burlington, IA 52601

SUBJECT: TEST RESULTS OF #3 BANK - GRID CASTING STACK

Dear Mr. Robertson:

Enclosed are the results of the lead emission tests conducted at your Burlington, Iowa facility on Tuesday, October 4, 1988.

If you have any questions about our report, please contact us.

Sincerely,

BELING CONSULTANTS, INC.

Curt Morehead

Curt Morehead
Environmental Chemist
Environmental Laboratory Division

jlf
Enc.

LEAD EMISSION CALCULATIONS

Test #	Particulate Collected (mg)	Lead Collected (mg)	Volume Sampled (scf)	Volumetric Flow Rate (scf/hr)	Lead Emissions (lb/hr)
1	55.21	2.26	52.46	278,169	0.0264
2	40.55	3.98	52.21	270,132	0.0454
3	25.39	2.48	49.89	278,043	0.0305

Sample Calculation:

Test #1: $\frac{2.26\ mg^{Pb}}{52.46\ scf} \times 278{,}169\ scf/hr \times 2.2046 \times 10^{-6}\ lb/mg = 0.0264\ lb/hr$

$\frac{2.26\ mg^{Pb}}{52.46\ scf} \times 1.5432 \times 10^{-2}\ gr/mg = 0.000665\ gr/scf$

$\frac{2.26\ mg^{Pb}}{52.46\ scf} \times 35.314445\ ft^3/m^3 = 1.52\ mg/m^3$

SUMMARY OF TEST RESULTS

Test #	mg^{Pb}/m^3	gr^{Pb}/scf	Total Particulate
1	1.52	0.000665	0.63
2	2.69	0.001176	0.45
3	1.76	0.000767	0.29
Average	1.99	0.000869	0.46

Temperature of Stack Gas - Average: 165.9°F

Area of Stack: 3.48 ft^2

Volumetric Flow Rate - Average: 5591.66 ACFM

Baghouse 4 for Gridcast Bank 3 AND Tek MAX WRAPPERS
2-21-89

SUMMARY OF TEST RESULTS

Mikro Pul Baghouse

Test #	mg^{Pb}/m^3	gr Pb/scf	lb^{Pb}/hr
1	0.125	0.0000545	0.0078
2	0.133	0.0000581	0.0082
3	0.128	0.0000559	0.0078
Average:	0.129	0.0000561	0.0079

Temperature of stack gas - average: 81.7°F

Area of Stack: 7.67 ft^2

Volumetric Flow Rate - Average: 17,075 ACFM

Opacity - Average: 0

Bank Grid Caster - Duct

Test #	ACFM	scf/hr
1	7303.37	390,591
2	7318.24	391,386
Average	7310.81	390,989

Temperature of Stack Gas: 102°F

Area of Duct: 1.77 ft^2

STACK Tests Roto clones 2+3 (mixers) Passed
OSI OVENS Failed 9/20/89

LEAD EMISSION CALCULATIONS

TEST #	LEAD COLLECTED (mg)	VOLUME SAMPLED (scf)	VOLUMETRIC FLOW RATE scf/hr	LEAD EMISSIONS lb/hr	
#3 Paste Mixer					
1	0.25	52.47	83,897	.00088	.0000734 gr/dscf
2	0.27	50.69	84,804	.00099	.0000817
3	0.92	54.51	87,220	.00324	.00026
OSI Ovens					
4	0.94	48.07	113,371	.00489	.0003 gr/dscf
5	1.70	39.88	96,407	.00906 *	.00066
6	1.26	42.45	102,449	.00670 *	.00046
#2 Paste Mixer					
7	0.50	41.86	147,596	.00388	.000184 gr/dscf
8	0.47	46.14	169,056	.00379	.000157
9	0.46	38.56	133,033	.00349	.000184

Sample Calculation:

Test #1:

$$\frac{0.25\text{mg Pb}}{52.47} \times 83{,}897 \text{ scf/hr} \times 2.2046 \times 10^{-6} \text{ lb/mg} = .00088 \text{ lb/hr}$$

$$\text{gr/dscf} = \frac{(7000 \text{ gr/lb})(\text{lb/Hr})}{\text{ft}^3/\text{Hr}}$$

* over .00044 gr/dscf max. limit

Testing ON 13+14 After Addition of 14

2-21-90

BELING

DYNACAST 13 & 14

SUMMARY OF RESULTS

LEAD EMISSIONS

TEST #	DATE	LEAD EMISSIONS (lb/hr)	LEAD (gr/dscf) EMISSIONS	ACFM
4	2/21/90	0.050	0.000499	12,900
5	2/21/90	0.053	0.000510	13,300
6	2/21/90	0.034	0.000325	13,100
Average		0.046	0.000445	

Stack Gas Average Velocity:	50.9 ft/sec
Stack Gas Average Flow Rate:	13,100 ACFM
Stack Gas Average Temperature:	121°F
Stack Gas Average Moisture:	0.8%

40 CFR part 60 subpart KK allows 0.00044 grains/dry standard cubic foot (gr/dscf) for other "lead emitting operations".

SUMMARY OF RESULTS

EXIDE CORPORATION

BURLINGTON, IOWA

DYNACAST #1

LEAD EMISSION SUMMARY

TEST #	DATE	LEAD EMISSIONS (lb/hr)	LEAD EMISSIONS (gr/dscf)	FLOW RATE (ACFM)
1	11/7/90	0.034	0.00093	4,846
2	11/7/90	0.026	0.00065	5,356
3	11/7/90	0.028	0.00073	5,136
AVERAGE:		0.029	0.00077	5,113

Stack Gas Average Velocity: 22.2 ft/sec
Stack Gas Average Temperature: 147.8°F
Stack Gas Average Moisture: 1.2%

40 CFR part 60 subpart KK allows 0.00044 grains/dry standard cubic foot (gr/dscf) for other "lead emitting operations".

During the period in which the tests were performed, the source did not meet the lead standard and is in not compliance with the State of Iowa permit limitations.

Galson Laboratories

6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

June 01, 2001

DOH ELAP# 11626

Mr. Steve Boxx
Lead Safe SE, Inc.
1215 South Fredricksburg
Lugoff, SC 29078

Client Account# 13970 Login# L71350

Dear Mr. Boxx:

Enclosed are the analytical results of the samples received by our laboratory May 24, 2001.

Results in this report are based on the sampling data provided by the client. Unless otherwise requested, all samples will be discarded two weeks from the date of this report.

Please contact your client service representative, Tonya McGuiggan at (877) 482-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

F. Joseph Unangst
Laboratory Director

Enclosure(s)

Galson Laboratories

6601 Kirkville Road
P.O. Box 369
E. Syracuse, NY 13057
Tel: (315) 437-7252 888-577-Labs (5227)
Fax: (315) 437-0571

Request For Industrial Hygiene Analysis

Company Name: Lead Safe

Site Name:

Sampled By: | Project #:

nd Report to: 1215 S. Fredricksburg Dr. Lugoff, SC 29078

Invoice to:

☐ Purchase order number

(or)

☐ Credit Card (type) Card # Exp Date

☐ Verbal Authorization

☑ Standard Turn-Around Time OR ☐ Rush: Date and Time Requested: / / am pm

☐ Phone Results to: Phone # ( ) - - ext.

☐ Fax Results to: Fax # ( ) - -

☑ Email Results to: steveboxx@mindspring.com

Sample Identification	Date Sampled	Sample Medium Catalog # / Lot #	Air Sample Volume (liters)*	Analysis Requested	Method Reference
Notre Dam		Soil	NA	Lead	
Exide 1		↓	↓	↓	
Exide 2					

*For passive monitors please list time exposed in minutes.

Comments (Please list any known interferences present in sampling area):

	Print Name	Signature	Date/Time
Chain of Custody	TonyaMcGuiggan	DMcGuiggan	
Relinquished by:	Steve Boxx		5-24-01 1500
Received by LAB.	M. Krause	M. Krause	5/25/01 10:40

Samples received after 3pm will be considered as next day's business.

LAB ORIGINAL

Galson Laboratories

6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Lead Safe SE, Inc.
Site : NS

Date Sampled : NS
Date Received : 24-MAY-01
Date Analyzed : 30-MAY-01 - 31-MAY-01

Account No.: 13970
Login No. : L71350

Lead

Sample ID	Lab ID	Total mg/kg
NOTRE DAM	L71350-1	130
EXIDE 1	L71350-2	180000
EXIDE 2	L71350-3	35000

Level of quantitation: 25 mg/kg
Analytical Method : SW846 6010B; ICP
OSHA PEL (TWA) : NA
Collection Media : Bulk

Submitted by: LK
Approved by : JK
Date : 01-JUN-01
QC by:
NYS DOH #: 11626

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

Inspection: 017137068 - Exide Corp

Inspection Information - Office: Iowa	
Nr: 017137068 Report ID: 0751910 Open: 08/09/1983	
Exide Corp 3400 West Ave Burlington , IA 52601 SIC: 3691/Storage Batteries	Union Status: Union
Inspection Type: Planned Scope: Complete Ownership: Safety/Health: Health Planning Guide: Health-Manufacturing	Advance Notice: Close Conference: 09/15/1983 Close Case: 06/22/1984

	Violation Summary					
	Serious	Willful	Repeat	Other	Unclass	Total
Nr Violations	1			2		3
Initial Penalty	560.00					560.00
Current Penalty	450.00					450.00
FTA Amount						

Violation Items

ID	Type	Standard	Issuance	Abate	Curr$	Init$	Fta$	Contest	LastEvent
1 01001	Serious	19100095 B01	10/12/1983	01/01/1984	450.00	560.00	0.00		I-Informal Settlement
2 02001	Other	19100095 I02 IIA	09/28/1983	10/03/1983	0.00	0.00	0.00		-
3 02003A	Other	19101025 C01	10/12/1983	10/03/1983	0.00	0.00	0.00		I-Informal Settlement
4 02003B	Other	19101025 F01	10/12/1983	10/03/1983	0.00	0.00	0.00		I-Informal Settlement

Inspection: 104253836 - Exide Corporation

Inspection Information - Office: Iowa
Nr: 104253836 Report ID: 0751910 Open: 01/02/1991
Exide Corporation

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Violation - Exide Corp

Standard Cited: 19101025 C01 *Lead*

Violation Information		
Nr: 017137068 Citation: 02003A Issuance: 10/12/1983 Report ID: 0751910		
Viol Type: Other	Nr Instances: 4	Contest Date:
Abatement Date: 10/03/1983 X	Nr Exposed:	Final Order:
Initial Penalty:	REC:	Emphasis:
Current Penalty:	Gravity:	Haz Category:

Penalty and Failure to Abate Event History

Type		Event	Date	Penalty	Abatement	Type	FTA Insp
PEN	Z	Issued	10/12/1983		10/03/1983	Other	
PEN	I	Informal Settlement	10/14/1983		10/03/1983	Other	

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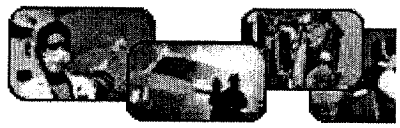

Violation - Exide Corp

Standard Cited: 19101025 F01 *Lead*

Violation Information		
Nr: 017137068 Citation: 02003B Issuance: 10/12/1983 Report ID: 0751910		
Viol Type: Other	Nr Instances: 3	Contest Date:
Abatement Date: 10/03/1983 X	Nr Exposed:	Final Order:
Initial Penalty:	REC:	Emphasis:
Current Penalty:	Gravity:	Haz Category:

Penalty and Failure to Abate Event History

Type		Event	Date	Penalty	Abatement	Type	FTA Insp
PEN	Z	Issued	10/12/1983		10/03/1983	Other	
PEN	I	Informal Settlement	10/14/1983		10/03/1983	Other	

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3400 West Avenue
Burlington , IA 52601 Union Status: Union
SIC: 3691/Storage Batteries
Mailing: P.O. Box 516 , Burlington , IA 52601

Inspection Type: Planned
Scope: Partial Advance Notice: N
Ownership: Private
Safety/Health: Health Close Conference: 01/18/1991
Planning Guide: Health-Manufacturing Close Case: 02/21/1991

Optional Information: Type ID Value
N 04 CAP

	Violation Summary					
	Serious	Willful	Repeat	Other	Unclass	Total
Nr Violations	3					3
Initial Penalty	1360.00					1360.00
Current Penalty	1360.00					1360.00
FTA Amount						

Violation Items

ID	Type	Standard	Issuance	Abate	Curr$	Init$	Fta$	Contest	LastEvent
1	01001	Serious 19101025 H01	01/30/1991	02/09/1991	560.00	560.00	0.00		-
2	01002	Serious 1200004 1	01/30/1991	02/02/1991	400.00	400.00	0.00		-
3	01003	Serious 1200005 1	01/30/1991	02/09/1991	400.00	400.00	0.00		-

Inspection: 104253984 - Exide Corporation

Inspection Information - Office: Iowa

Nr: 104253984 Report ID: 0751910 Open: 12/18/1990

Exide Corporation
3400 West Avenue
Burlington , IA 52601 Union Status: Union
SIC: 3691/Storage Batteries
Mailing: P.O. Box 516 , Burlington , IA 52601

Inspection Type: Complaint
Scope: Partial Advance Notice: N

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Violation - Exide Corporation

Standard Cited: 19101025 H01 *Lead*

Violation Information		
Nr: 104253836 Citation: 01001 Issuance: 01/30/1991 Report ID: 0751910		
Viol Type: Serious	Nr Instances: 5	Contest Date:
Abatement Date: 02/09/1991 X	Nr Exposed: 10	Final Order:
Initial Penalty: 560.00	REC:	Emphasis:
Current Penalty: 560.00	Gravity: 07	Haz Category:

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Ownership: Private	
Safety/Health: Health	Close Conference: 01/07/1991
Planning Guide: Health-Manufacturing	Close Case: 02/15/1993

Related Activity: Type	ID	Date	Safety	Health
Complaint	073199200	12/06/1990	Yes	

	Violation Summary					
	Serious	Willful	Repeat	Other	Unclass	Total
Nr Violations				2		2
Initial Penalty				20000.00		20000.00
Current Penalty				1500.00		1500.00
FTA Amount						

Violation Items

	ID	Type	Standard	Issuance	Abate	Curr$	Init$	Fta$	Contest	LastEv
Deleted	1 01001	Serious	19101025 J02 II	01/14/1991	02/18/1991	1000.00	1000.00	0.00	01/25/1991	R-Revie Commiss
	2 02001A	Other	19101025 J02 I0C	01/14/1991	02/03/1991	750.00	10000.00	0.00	01/25/1991	R-Revie Commiss
	3 02001B	Other	19101025 J03 I0D	01/14/1991	02/03/1991	0.00	0.00	0.00	01/25/1991	R-Revie Commiss
	4 02002A	Other	19101025 K02 I	01/14/1991	02/03/1991	750.00	10000.00	0.00	01/25/1991	R-Revie Commiss
	5 02002B	Other	19101025 K02 VII	01/14/1991	02/03/1991	0.00	0.00	0.00	01/25/1991	R-Revie Commiss

Inspection: 104240155 - Exide Corporation

Inspection Information - Office: Iowa

Nr: 104240155 Report ID: 0751910 Open: 12/06/1989

Exide Corporation
3400 West Avenue
Burlington , IA 52601 Union Status: Union
SIC: 3691/Storage Batteries
Mailing: P.O. Box 516 , Burlington , IA 52601

Inspection Type: Referral
Scope: Partial Advance Notice: N
Ownership: Private
Safety/Health: Safety Close Conference: 12/06/1989

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Violation - Exide Corporation

Standard Cited: 19101025 J02 II *Lead*

Violation Information		
This violation item has been **deleted**.		
Nr: 104253984 Citation: 01001 Issuance: 01/14/1991 Report ID: 0751910		
Viol Type: Serious	Nr Instances: 26	Contest Date: 01/25/1991
Abatement Date: 02/18/1991 X	Nr Exposed: 200	Final Order: 04/24/1992
Initial Penalty: 1000.00	REC:	Emphasis:
Current Penalty: 1000.00	Gravity: 10	Haz Category:

Penalty and Failure to Abate Event History

Type		Event	Date	Penalty	Abatement	Type	FTA Insp
PEN	Z	Issued	01/14/1991	1000.00	02/18/1991	Serious	
PEN	R	Review Commission	04/24/1992	1000.00	02/18/1991	Serious	

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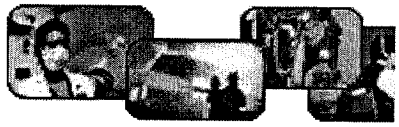

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Violation - Exide Corporation

Standard Cited: 19101025 J02 I0C *Lead*

Violation Information		
Nr: 104253984 Citation: 02001A Issuance: 01/14/1991 Report ID: 0751910		
Viol Type: Other	Nr Instances: 1	Contest Date: 01/25/1991
Abatement Date: 02/03/1991 X	Nr Exposed: 1	Final Order: 04/24/1992
Initial Penalty: 10000.00	REC:	Emphasis:
Current Penalty: 750.00	Gravity: 10	Haz Category:

Penalty and Failure to Abate Event History

Type		Event	Date	Penalty	Abatement	Type	FTA Insp
PEN	Z	Issued	01/14/1991	10000.00	02/03/1991	Willful	
PEN	R	Review Commission	04/24/1992	750.00	02/03/1991	Other	

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Violation - Exide Corporation

Standard Cited: 19101025 J03 I0D *Lead*

Violation Information		
Nr: 104253984 Citation: 02001B Issuance: 01/14/1991 Report ID: 0751910		
Viol Type: Other	Nr Instances: 1	Contest Date: 01/25/1991
Abatement Date: 02/03/1991 X	Nr Exposed: 1	Final Order: 04/24/1992
Initial Penalty:	REC:	Emphasis:
Current Penalty:	Gravity:	Haz Category:

Penalty and Failure to Abate Event History							
Type		Event	Date	Penalty	Abatement	Type	FTA Insp
PEN	Z	Issued	01/14/1991		02/03/1991	Willful	
PEN	R	Review Commission	04/24/1992		02/03/1991	Other	

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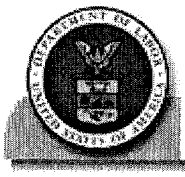

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Violation - Exide Corporation

Standard Cited: 19101025 K02 I *Lead*

Violation Information		
Nr: 104253984 Citation: 02002A Issuance: 01/14/1991 Report ID: 0751910		
Viol Type: Other	Nr Instances: 1	Contest Date: 01/25/1991
Abatement Date: 02/03/1991 X	Nr Exposed: 1	Final Order: 04/24/1992
Initial Penalty: 10000.00	REC:	Emphasis:
Current Penalty: 750.00	Gravity: 10	Haz Category:

Penalty and Failure to Abate Event History

Type		Event	Date	Penalty	Abatement	Type	FTA Insp
PEN	Z	Issued	01/14/1991	10000.00	02/03/1991	Willful	
PEN	R	Review Commission	04/24/1992	750.00	02/03/1991	Other	

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Violation - Exide Corporation

Standard Cited: 19101025 K02 VII *Lead*

Violation Information		
Nr: 104253984 Citation: 02002B Issuance: 01/14/1991 Report ID: 0751910		
Viol Type: Other	Nr Instances: 1	Contest Date: 01/25/1991
Abatement Date: 02/03/1991 X	Nr Exposed: 1	Final Order: 04/24/1992
Initial Penalty:	REC:	Emphasis:
Current Penalty:	Gravity:	Haz Category:

Penalty and Failure to Abate Event History

Type		Event	Date	Penalty	Abatement	Type	FTA Insp
PEN	Z	Issued	01/14/1991		02/03/1991	Willful	
PEN	R	Review Commission	04/24/1992		02/03/1991	Other	

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Inspection Type: Complaint	
Scope: Partial	Advance Notice: N
Ownership: Private	
Safety/Health: Health	Close Conference: 08/18/1998
Planning Guide: Health-Manufacturing	Close Case: 08/18/1998

Related Activity: Type	ID	Date	Safety	Health
Complaint	200517506	07/02/1998		Yes

Inspection: 104256813 - Exide Corporation

Inspection Information - Office: Iowa

Nr: 104256813 Report ID: 0751910 Open: 01/24/1991

Exide Corporation
3400 West Avenue
Burlington , IA 52601 Union Status: Union
SIC: 3691/Storage Batteries
Mailing: P.O. Box 516 , Burlington , IA 52601

Inspection Type: Referral	
Scope: Complete	Advance Notice: N
Ownership: Private	
Safety/Health: Safety	Close Conference: 01/25/1991
Planning Guide: Safety-Manufacturing	Close Case: 09/16/1991

Related Activity: Type	ID	Date	Safety	Health
Referral	900159682	01/16/1991	Yes	

	Violation Summary					
	Serious	Willful	Repeat	Other	Unclass	Total
Nr Violations	7			5		12
Initial Penalty	3870.00			2160.00		6030.00
Current Penalty	1450.00					1450.00
FTA Amount						

Violation Items

	ID	Type	Standard	Issuance	Abate	Curr$	Init$	Fta$	Contest	LastEvent
1	01001	Other	19100022 A01	02/19/1991	03/26/1991	0.00	180.00	0.00	03/18/1991	F-Formal Settlement
			19100025 D02							F-Formal

2	01002	Other	I	02/19/1991	03/26/1991	0.00	450.00	0.00 03/18/1991	Settlement
3	01003	Serious	19100147 C04 II	02/19/1991	03/26/1991	150.00	540.00	0.00 03/18/1991	F-Formal Settlement
4	01004	Serious	19100151 C	02/19/1991	03/26/1991	150.00	450.00	0.00 03/18/1991	F-Formal Settlement
5	01005	Other	19100219 C02 I	02/19/1991	03/26/1991	0.00	360.00	0.00 03/18/1991	F-Formal Settlement
6	01006	Serious	19100219 E05 I	02/19/1991	03/26/1991	200.00	450.00	0.00 03/18/1991	F-Formal Settlement
7	01007	Serious	19100219 F03	02/19/1991	03/26/1991	200.00	360.00	0.00 03/18/1991	F-Formal Settlement
8	01008	Serious	19100303 G02 I	02/19/1991	03/26/1991	400.00	630.00	0.00 03/18/1991	F-Formal Settlement
9	01009	Serious	19100305 G02 III	02/19/1991	03/26/1991	150.00	540.00	0.00 03/18/1991	F-Formal Settlement
10	01010	Other	19100305 J01 IV	02/19/1991	03/26/1991	0.00	270.00	0.00 03/18/1991	F-Formal Settlement
11	02001	Serious	19100219 D01	02/19/1991	03/26/1991	200.00	900.00	0.00 03/18/1991	F-Formal Settlement
12	02002	Other	19100219 E01 I	02/19/1991	03/26/1991	0.00	900.00	0.00 03/18/1991	F-Formal Settlement

Inspection: 115072399 - Exide Corporation

Inspection Information - Office: Iowa

Nr: 115072399 Report ID: 0751910 Open: 01/30/1995

Exide Corporation
1600 E. Washington #5
Des Moines , IA 50316 Union Status: NonUnion
SIC: 5013/Motor Vehicle Supplies and New Parts

Inspection Type: Complaint
Scope: Partial Advance Notice: N
Ownership: Private
Safety/Health: Health Close Conference: 02/07/1995
Close Case: 04/13/1995

Optional Information: Type ID Value
N 05 IAQSMOKE

Related Activity: Type ID Date Safety Health
Complaint 077517563 01/17/1995 Yes Yes

Violation Summary

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Violation - Exide Corporation

Standard Cited: 19100147 C04 II *The Control of Hazardous Energy, Lockout/Tagout*

Violation Information		
Nr: 104256813 Citation: 01003 Issuance: 02/19/1991 Report ID: 0751910		
Viol Type: Serious	Nr Instances: 1	Contest Date: 03/18/1991
Abatement Date: 03/26/1991 X	Nr Exposed: 4	Final Order: 09/16/1991
Initial Penalty: 540.00	REC:	Emphasis:
Current Penalty: 150.00	Gravity: 06	Haz Category:

Penalty and Failure to Abate Event History

Type		Event	Date	Penalty	Abatement	Type	FTA Insp
PEN	Z	Issued	02/19/1991	540.00	03/26/1991	Serious	
PEN	F	Formal Settlement	09/16/1991	150.00	03/26/1991	Serious	

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Regulations (Standards - 29 CFR)

Lead. - 1910.1025

Regulations (Standards - 29 CFR) - Table of Contents

• **Part Number:**	1910
• **Part Title:**	Occupational Safety and Health Standards
• **Subpart:**	Z
• **Subpart Title:**	Toxic and Hazardous Substances
• **Standard Number:**	1910.1025
• **Title:**	Lead.
• **Appendix:**	A, B, C, D

1910.1025(a)

Scope and application.

1910.1025(a)(1)

This section applies to all occupational exposure to lead, except as provided in paragraph (a)(2).

1910.1025(a)(2)

This section does not apply to the construction industry or to agricultural operations covered by 29 CFR Part 1928.

1910.1025(b)

Definitions.

"Action level" means employee exposure, without regard to the use of respirators, to an airborne concentration of lead of 30 micrograms per cubic meter of air (30 ug/m(3)) averaged over an 8-hour period.

"Assistant Secretary" means the Assistant Secretary of Labor for Occupational Safety and Health, U.S. Department of Labor, or designee.

"Director" means the Director, National Institute for Occupational Safety and Health (NIOSH), U.S. Department of Health, Education, and Welfare, or designee.

"Lead" means metallic lead, all inorganic lead compounds, and organic lead soaps. Excluded from this definition are all other organic lead compounds.

1910.1025(c)

Permissible exposure limit (PEL).

1910.1025(c)(1)

The employer shall assure that no employee is exposed to lead at concentrations greater than fifty micrograms per cubic meter of air (50 ug/m(3)) averaged over an 8-hour period.

1910.1025(c)(2)

If an employee is exposed to lead for more than 8 hours in any work day, the permissible exposure limit, as a time weighted average (TWA) for that day, shall be reduced according to the following formula:

Maximum permissible limit (in ug/m(3))=400 divided by hours worked in the day.

..1910.1025(c)(3)

1910.1025(c)(3)

When respirators are used to supplement engineering and work practice controls to comply with the PEL and all the requirements of paragraph (f) have been met, employee exposure, for the purpose of determining whether the employer has complied with the PEL, may be considered to be at the level provided by the protection factor of the respirator for those periods the respirator is worn. Those periods may be averaged with exposure levels during periods when respirators are not worn to determine the employee's daily TWA exposure.

1910.1025(d)

Exposure monitoring -

1910.1025(d)(1)

General.

1910.1025(d)(1)(i)

For the purposes of paragraph (d), employee exposure is that exposure which would occur if the employee were not using a respirator.

1910.1025(d)(1)(ii)

With the exception of monitoring under paragraph (d)(3), the employer shall collect full shift (for at least 7 continuous hours) personal samples including at least one sample for each shift for each job classification in each work area.

1910.1025(d)(1)(iii)

Full shift personal samples shall be representative of the monitored employee's regular, daily exposure to lead.

1910.1025(d)(2)

Initial determination. Each employer who has a workplace or work operation covered by this standard shall determine if any employee may be exposed to lead at or above the action level.

1910.1025(d)(3)

Basis of initial determination.

1910.1025(d)(3)(i)

The employer shall monitor employee exposures and shall base initial determinations on the employee exposure monitoring results and any of the following, relevant considerations:

..1910.1025(d)(3)(i)(A)

1910.1025(d)(3)(i)(A)

Any information, observations, or calculations which would indicate employee exposure to lead;

1910.1025(d)(3)(i)(B)

Any previous measurements of airborne lead; and

1910.1025(d)(3)(i)(C)

Any employee complaints of symptoms which may be attributable to exposure to lead.

1910.1025(d)(3)(ii)

Monitoring for the initial determination may be limited to a representative sample of the exposed employees who the employer reasonably believes are exposed to the greatest airborne concentrations of lead in the workplace.

1910.1025(d)(3)(iii)

Measurements of airborne lead made in the preceding 12 months may be used to satisfy the requirement to monitor under paragraph (d)(3)(i) if the sampling and analytical methods used meet the accuracy and confidence levels of paragraph (d)(9) of this section.

1910.1025(d)(4)

Positive initial determination and initial monitoring.

1910.1025(d)(4)(i)

Where a determination conducted under paragraphs (d)(2) and (3) of this section shows the possibility of any employee exposure at or above the action level, the employer shall conduct monitoring which is representative of the exposure for each employee in the workplace who

is exposed to lead.

..1910.1025(d)(4)(ii)

1910.1025(d)(4)(ii)

Measurements of airborne lead made in the preceding 12 months may be used to satisfy this requirement if the sampling and analytical methods used meet the accuracy and confidence levels of paragraph (d)(9) of this section.

1910.1025(d)(5)

Negative initial determination. Where a determination, conducted under paragraphs (d)(2) and (3) of this section is made that no employee is exposed to airborne concentrations of lead at or above the action level, the employer shall make a written record of such determination. The record shall include at least the information specified in paragraph (d)(3) of this section and shall also include the date of determination, location within the worksite, and the name and social security number of each employee monitored.

1910.1025(d)(6)

Frequency.

1910.1025(d)(6)(i)

If the initial monitoring reveals employee exposure to be below the action level the measurements need not be repeated except as otherwise provided in paragraph (d)(7) of this section.

1910.1025(d)(6)(ii)

If the initial determination or subsequent monitoring reveals employee exposure to be at or above the action level but below the permissible exposure limit the employer shall repeat monitoring in accordance with this paragraph at least every 6 months. The employer shall continue monitoring at the required frequency until at least two consecutive measurements, taken at least 7 days apart, are below the action level at which time the employer may discontinue monitoring for that employee except as otherwise provided in paragraph (d)(7) of this section.

..1910.1025(d)(6)(iii)

1910.1025(d)(6)(iii)

If the initial monitoring reveals that employee exposure is above the permissible exposure limit the employer shall repeat monitoring quarterly. The employer shall continue monitoring at the required frequency until at least two consecutive measurements, taken at least 7 days apart, are below the PEL but at or above the action level at which time the employer shall repeat monitoring for that employee at the frequency specified in paragraph (d)(6)(ii), except as otherwise provided in paragraph (d)(7) of this section.

1910.1025(d)(7)

Additional monitoring. Whenever there has been a production, process, control or personnel change which may result in new or additional exposure to lead, or whenever the employer has any other reason to suspect a change which may result in new or additional exposures to lead, additional monitoring in accordance with this paragraph shall be conducted.

1910.1025(d)(8)

Employee notification.

1910.1025(d)(8)(i)

Within 5 working days after the receipt of monitoring results, the employer shall notify each employee in writing of the results which represent that employee's exposure.

1910.1025(d)(8)(ii)

Whenever the results indicate that the representative employee exposure, without regard to respirators, exceeds the permissible exposure limit, the employer shall include in the written notice a statement that the permissible exposure limit was exceeded and a description of the corrective action taken or to be taken to reduce exposure to or below the permissible exposure limit.

..1910.1025(d)(9)

1910.1025(d)(9)

Accuracy of measurement. The employer shall use a method of monitoring and analysis which has an accuracy (to a confidence level of 95%) of not less than plus or minus 20 percent for airborne concentrations of lead equal to or greater than 30 ug/m(3).

1910.1025(e)

Methods of compliance -

1910.1025(e)(1)

Engineering and work practice controls.

1910.1025(e)(1)(i)

Where any employee is exposed to lead above the permissible exposure limit for more than 30 days per year, the employer shall implement engineering and work practice controls (including administrative controls) to reduce and maintain employee exposure to lead in accordance with the implementation schedule in Table I below, except to the extent that the employer can demonstrate that such controls are not feasible. Wherever the engineering and work practice controls which can be instituted are not sufficient to reduce employee exposure to or below the permissible exposure limit, the employer shall nonetheless use them to reduce exposures to the lowest feasible level and shall supplement them by the use of respiratory

protection which complies with the requirements of paragraph (f) of this section.

1910.1025(e)(1)(ii)

Where any employee is exposed to lead above the permissible exposure limit, but for 30 days or less per year, the employer shall implement engineering controls to reduce exposures to 200 ug/m(3), but thereafter may implement any combination of engineering, work practice (including administrative controls), and respiratory controls to reduce and maintain employee exposure to lead to or below 50 ug/m(3)

TABLE I

Industry	Compliance dates(1): (50 UG/M(3))
Lead chemicals, secondary copper smeting.	July 19, 1996.
Nonferrous foundries	July 19, 1996(2).
Brass and bronze ingot manufacture.....	6 years(3).

Footnote(1) Calculated by counting from the date the stay on implementation of paragraph (e)(1) was lifted by the U.S. Court of Appeals for the District of Columbia, the number of years specified in the 1978 lead standard and subsequent amendments for compliance with the PEL of 50 ug/m(3) for exposure to airborne concentrations of lead levels for the particular industry.

Footnote(2) Large nonferrous foundries (20 or more employees) are required to achieve the PEL of 50 ug/m(3) by means of engineering and work practice controls. Small nonferrous foundries (fewer than 20 employees) are required to achieve an 8-hour TWA of 75 ug/m(3) by such controls.

Footnote(3) Expressed as the number of years from the date on which the Court lifts the stay on the implementation of paragraph (e)(1) for this industry for employers to achieve a lead in air concentration of 75 ug/m(3). Compliance with paragraph (e) in this industry is determined by a complance directive that incorporates elements from the settlement agreement between OSHA and representatives of the injury.
are required to comply within five years.

..1910.1025(e)(2)

1910.1025(e)(2)

Respiratory protection. Where engineering and work practice controls do not reduce employee exposure to or below the 50 ug/m(3) permissible exposure limit, the employer shall supplement these controls with respirators in accordance with paragraph (f).

1910.1025(e)(3)

Compliance program.

1910.1025(e)(3)(i)

Each employer shall establish and implement a written compliance program to reduce exposures to or below the permissible exposure limit, and interim levels if applicable, solely by means of engineering and work practice controls in accordance with the implementation schedule in paragraph (e)(1).

1910.1025(e)(3)(ii)

Written plans for these compliance programs shall include at least the following:

1910.1025(e)(3)(ii)(A)

A description of each operation in which lead is emitted; e.g. machinery used, material processed, controls in place, crew size, employee job responsibilities, operating procedures and maintenance practices;

1910.1025(e)(3)(ii)(B)

A description of the specific means that will be employed to achieve compliance, including engineering plans and studies used to determine methods selected for controlling exposure to lead;

1910.1025(e)(3)(ii)(C)

A report of the technology considered in meeting the permissible exposure limit;

1910.1025(e)(3)(ii)(D)

Air monitoring data which documents the source of lead emissions;

..1910.1025(e)(3)(ii)(E)

1910.1025(e)(3)(ii)(E)

A detailed schedule for implementation of the program, including documentation such as copies of purchase orders for equipment, construction contracts, etc.;

1910.1025(e)(3)(ii)(F)

A work practice program which includes items required under paragraphs (g), (h) and (i) of this regulation;

1910.1025(e)(3)(ii)(G)

An administrative control schedule required by paragraph (e)(6), if applicable;

1910.1025(e)(3)(ii)(H)

Other relevant information.

1910.1025(e)(3)(iii)

Written programs shall be submitted upon request to the Assistant Secretary and the Director, and shall be available at the worksite for examination and copying by the Assistant Secretary, Director, any affected employee or authorized employee representatives.

1910.1025(e)(3)(iv)

Written programs shall be revised and updated at least every 6 months to reflect the current status of the program.

..1910.1025(e)(4)

1910.1025(e)(4)

Mechanical ventilation.

1910.1025(e)(4)(i)

When ventilation is used to control exposure, measurements which demonstrate the effectiveness of the system in controlling exposure, such as capture velocity, duct velocity, or static pressure shall be made at least every 3 months. Measurements of the system's effectiveness in controlling exposure shall be made within 5 days of any change in production, process, or control which might result in a change in employee exposure to lead.

1910.1025(e)(4)(ii)

Recirculation of air. If air from exhaust ventilation is recirculated into the workplace, the employer shall assure that (A) the system has a high efficiency filter with reliable back-up filter; and (B) controls to monitor the concentration of lead in the return air and to bypass the recirculation system automatically if it fails are installed, operating, and maintained.

1910.1025(e)(5)

Administrative controls. If administrative controls are used as a means of reducing employees TWA exposure to lead, the employer shall establish and implement a job rotation schedule which includes:

1910.1025(e)(5)(i)

Name or identification number of each affected employee;

1910.1025(e)(5)(ii)

Duration and exposure levels at each job or work station where each affected employee is located; and

1910.1025(e)(5)(iii)

Any other information which may be useful in assessing the reliability of administrative

controls to reduce exposure to lead.

1910.1025(f)

Respiratory protection.

1910.1025(f)(1)

General. For employees who use respirators required by this section, the employer must provide respirators that comply with the requirements of this paragraph. Respirators must be used during:

1910.1025(f)(1)(i)

Periods necessary to install or implement engineering or work-practice controls.

1910.1025(f)(1)(ii)

Work operations for which engineering and work-practice controls are not sufficient to reduce employee exposures to or below the permissible exposure limit.

..1910.1025(f)(1)(iii)

1910.1025(f)(1)(iii)

Periods when an employee requests a respirator.

1910.1025(f)(2)

Respirator program.

1910.1025(f)(2)(i)

The employer must implement a respiratory protection program in accordance with 29 CFR 1910.134 (b) through (d) (except (d)(1)(iii)), and (f) through (m).

1910.1025(f)(2)(ii)

If an employee has breathing difficulty during fit testing or respirator use, the employer must provide the employee with a medical examination in accordance with paragraph (j)(3)(i)(C) of this section to determine whether or not the employee can use a respirator while performing the required duty.

TABLE II.—RESPIRATORY PROTECTION FOR LEAD AEROSOLS

Airborne concentration of lead or condition of use	Required respirator
Not in excess of 0.5 mg/m³ (10X PEL)	Half-mask, air-purifying respirator equipped with high efficiency filters.[2,3]
Not in excess of 2.5 mg/m³ (50X PEL)	Full facepiece, air-purifying respirator with high efficiency filters.[2]
Not in excess of 50 mg/m³ (1000X PEL)	(1) Any powered, air-purifying respirator with high efficiency filters[3]; or (2) Half-mask supplied-air respirator operated in positive-pressure mode.[2]
Not in excess of 100 mg/m³ (2000X PEL)	Supplied-air respirators with full facepiece, hood, helmet, or suit, operated in positive pressure mode.
Greater than 100 mg/m³, unknown concentration or fire fighting.	Full facepiece, self-contained breathing apparatus operated in positive-pressure mode.

[1] Respirators specified for high concentrations can be used at lower concentrations of lead.
[2] Full facepiece is required if the lead aerosols cause eye or skin irritation at the use concentrations.
[3] A high efficiency particulate filter means 99.97 percent efficient against 0.3 micron size particles.

1910.1025(f)(3)

Respirator selection.

1910.1025(f)(3)(i)

The employer must select the appropriate respirator or combination of respirators from Table II of this section.

1910.1025(f)(3)(ii)

The employer must provide a powered air-purifying respirator instead of the respirator specified in Table II of this section when an employee chooses to use this type of respirator and such a respirator provides adequate protection to the employee.

..1910.1025(g)

1910.1025(g)

Protective work clothing and equipment -

1910.1025(g)(1)

Provision and use. If an employee is exposed to lead above the PEL, without regard to the use of respirators or where the possibility of skin or eye irritation exists, the employer shall provide at no cost to the employee and assure that the employee uses appropriate protective work clothing and equipment such as, but not limited to:

1910.1025(g)(1)(i)

Coveralls or similar full-body work clothing;

1910.1025(g)(1)(ii)

Gloves, hats, and shoes or disposable shoe coverlets; and

1910.1025(g)(1)(iii)

Face shields, vented goggles, or other appropriate protective equipment which complies with 1910.133 of this Part.

1910.1025(g)(2)

Cleaning and replacement.

1910.1025(g)(2)(i)

The employer shall provide the protective clothing required in paragraph (g)(1) of this section in a clean and dry condition at least weekly, and daily to employees whose exposure levels without regard to a respirator are over 200 ug/m(3) of lead as an 8-hour TWA.

1910.1025(g)(2)(ii)

The employer shall provide for the cleaning, laundering, or disposal of protective clothing and equipment required by paragraph (g)(1) of this section.

1910.1025(g)(2)(iii)

The employer shall repair or replace required protective clothing and equipment as needed to maintain their effectiveness.

..1910.1025(g)(2)(iv)

1910.1025(g)(2)(iv)

The employer shall assure that all protective clothing is removed at the completion of a work shift only in change rooms provided for that purpose as prescribed in paragraph (i)(2) of this section.

1910.1025(g)(2)(v)

The employer shall assure that contaminated protective clothing which is to be cleaned, laundered, or disposed of, is placed in a closed container in the change-room which prevents dispersion of lead outside the container.

1910.1025(g)(2)(vi)

The employer shall inform in writing any person who cleans or launders protective clothing or equipment of the potentially harmful effects of exposure to lead.

1910.1025(g)(2)(vii)

The employer shall assure that the containers of contaminated protective clothing and equipment required by paragraph (g)(2)(v) are labeled as follows: CAUTION: CLOTHING CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE

WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.

1910.1025(g)(2)(viii)

The employer shall prohibit the removal of lead from protective clothing or equipment by blowing, shaking, or any other means which disperses lead into the air.

1910.1025(h)

Housekeeping -

1910.1025(h)(1)

Surfaces. All surfaces shall be maintained as free as practicable of accumulations of lead.

..1910.1025(h)(2)

1910.1025(h)(2)

Cleaning floors.

1910.1025(h)(2)(i)

Floors and other surfaces where lead accumulates may not be cleaned by the use of compressed air.

1910.1025(h)(2)(ii)

Shoveling, dry or wet sweeping, and brushing may be used only where vacuuming or other equally effective methods have been tried and found not to be effective.

1910.1025(h)(3)

Vacuuming. Where vacuuming methods are selected, the vacuums shall be used and emptied in a manner which minimizes the reentry of lead into the workplace.

1910.1025(i)

Hygiene facilities and practices.

1910.1025(i)(1)

The employer shall assure that in areas where employees are exposed to lead above the PEL, without regard to the use of respirators, food or beverage is not present or consumed, tobacco products are not present or used, and cosmetics are not applied, except in change rooms, lunchrooms, and showers required under paragraphs (i)(2) - through (i)(4) of this section.

1910.1025(i)(2)

Change rooms.

1910.1025(i)(2)(i)

The employer shall provide clean change rooms for employees who work in areas where their airborne exposure to lead is above the PEL, without regard to the use of respirators.

..1910.1025(i)(2)(ii)

1910.1025(i)(2)(ii)

The employer shall assure that change rooms are equipped with separate storage facilities for protective work clothing and equipment and for street clothes which prevent cross-contamination.

1910.1025(i)(3)

Showers.

1910.1025(i)(3)(i)

The employer shall assure that employees who work in areas where their airborne exposure to lead is above the PEL, without regard to the use of respirators, shower at the end of the work shift.

1910.1025(i)(3)(ii)

The employer shall provide shower facilities in accordance with 1910.141 (d)(3) of this part.

1910.1025(i)(3)(iii)

The employer shall assure that employees who are required to shower pursuant to paragraph (i)(3)(i) do not leave the workplace wearing any clothing or equipment worn during the work shift.

1910.1025(i)(4)

Lunchrooms.

1910.1025(i)(4)(i)

The employer shall provide lunchroom facilities for employees who work in areas where their airborne exposure to lead is above the PEL, without regard to the use of respirators.

1910.1025(i)(4)(ii)

The employer shall assure that lunchroom facilities have a temperature controlled, positive pressure, filtered air supply, and are readily accessible to employees.

..1910.1025(i)(4)(iii)

1910.1025(i)(4)(iii)

The employer shall assure that employees who work in areas where their airborne exposure to lead is above the PEL without regard to the use of a respirator wash their hands and face prior to eating, drinking, smoking or applying cosmetics.

1910.1025(i)(4)(iv)

The employer shall assure that employees do not enter lunchroom facilities with protective work clothing or equipment unless surface lead dust has been removed by vacuuming, down draft booth, or other cleaning method.

1910.1025(i)(5)

Lavatories. The employer shall provide an adequate number of lavatory facilities which comply with 1910.141(d)(1) and (2) of this part.

1910.1025(j)

Medical surveillance -

1910.1025(j)(1)

General.

1910.1025(j)(1)(i)

The employer shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year.

1910.1025(j)(1)(ii)

The employer shall assure that all medical examinations and procedures are performed by or under the supervision of a licensed physician.

1910.1025(j)(1)(iii)

The employer shall provide the required medical surveillance including multiple physician review under paragraph (j)(3)(iii) without cost to employees and at a reasonable time and place.

..1910.1025(j)(2)

1910.1025(j)(2)

Biological monitoring -

1910.1025(j)(2)(i)

Blood lead and ZPP level sampling and analysis. The employer shall make available

biological monitoring in the form of blood sampling and analysis for lead and zinc protoporphyrin levels to each employee covered under paragraph (j)(1)(i) of this section on the following schedule:

1910.1025(j)(2)(i)(A)

At least every 6 months to each employee covered under paragraph (j)(1)(i) of this section;

1910.1025(j)(2)(i)(B)

At least every two months for each employee whose last blood sampling and analysis indicated a blood lead level at or above 40 ug/100 g of whole blood. This frequency shall continue until two consecutive blood samples and analyses indicate a blood lead level below 40 ug/100 g of whole blood; and

1910.1025(j)(2)(i)(C)

At least monthly during the removal period of each employee removed from exposure to lead due to an elevated blood lead level.

1910.1025(j)(2)(ii)

Follow-up blood sampling tests. Whenever the results of a blood lead level test indicate that an employee's blood lead level exceeds the numerical criterion for medical removal under paragraph (k)(1)(i)(A), of this section, the employer shall provide a second (follow-up) blood sampling test within two weeks after the employer receives the results of the first blood sampling test.

..1910.1025(j)(2)(iii)

1910.1025(j)(2)(iii)

Accuracy of blood lead level sampling and analysis. Blood lead level sampling and analysis provided pursuant to this section shall have an accuracy (to a confidence level of 95 percent) within plus or minus 15 percent or 6 ug/100 ml, whichever is greater, and shall be conducted by a laboratory licensed by the Center for Disease Control, United States Department of Health, Education and Welfare (CDC) or which has received a satisfactory grade in blood lead proficiency testing from CDC in the prior twelve months.

1910.1025(j)(2)(iv)

Employee notification. Within five working days after the receipt of biological monitoring results, the employer shall notify in writing each employee whose blood lead level exceeds 40 ug/100 g:

1910.1025(j)(2)(iv)(A)

of that employee's blood lead level and (B) that the standard requires temporary medical removal with Medical Removal Protection benefits when an employee's blood lead level exceeds the numerical criterion for medical removal under paragraph (k)(1)(i) of this section.

1910.1025(j)(3)

Medical examinations and consultations -

1910.1025(j)(3)(i)

Frequency. The employer shall make available medical examinations and consultations to each employee covered under paragraph (j)(1)(i) of this section on the following schedule:

1910.1025(j)(3)(i)(A)

At least annually for each employee for whom a blood sampling test conducted at any time during the preceding 12 months indicated a blood lead level at or above 40 ug/100 g;

1910.1025(j)(3)(i)(B)

Prior to assignment for each employee being assigned for the first time to an area in which airborne concentrations of lead are at or above the action level;

..1910.1025(j)(3)(i)(C)

1910.1025(j)(3)(i)(C)

As soon as possible, upon notification by an employee either that the employee has developed signs or symptoms commonly associated with lead intoxication, that the employee desires medical advice concerning the effects of current or past exposure to lead on the employee's ability to procreate a healthy child, or that the employee has demonstrated difficulty in breathing during a respirator fitting test or during use; and

1910.1025(j)(3)(i)(D)

As medically appropriate for each employee either removed from exposure to lead due to a risk of sustaining material impairment to health, or otherwise limited pursuant to a final medical determination.

1910.1025(j)(3)(ii)

Content. Medical examinations made available pursuant to paragraph (j)(3)(i)(A)-(B) of this section shall include the following elements:

1910.1025(j)(3)(ii)(A)

A detailed work history and a medical history, with particular attention to past lead exposure (occupational and non-occupational), personal habits (smoking, hygiene), and past gastrointestinal, hematologic,renal, cardiovascular, reproductive and neurological problems;

1910.1025(j)(3)(ii)(B)

A thorough physical examination, with particular attention to teeth, gums, hematologic, gastrointestinal, renal, cardiovascular, and neurological systems. Pulmonary status should be

evaluated if respiratory protection will be used;

1910.1025(j)(3)(ii)(C)

A blood pressure measurement;

1910.1025(j)(3)(ii)(D)

A blood sample and analysis which determines:

1910.1025(j)(3)(ii)(D)(1)

Blood lead level;

..1910.1025(j)(3)(ii)(D)(2)

1910.1025(j)(3)(ii)(D)(2)

Hemoglobin and hematocrit determinations, red cell indices, and examination of peripheral smear morphology;

1910.1025(j)(3)(ii)(D)(3)

Zinc protoporphyrin;

1910.1025(j)(3)(ii)(D)(4)

Blood urea nitrogen; and,

1910.1025(j)(3)(ii)(D)(5)

Serum creatinine;

1910.1025(j)(3)(ii)(E)

A routine urinalysis with microscopic examination; and

1910.1025(j)(3)(ii)(F)

Any laboratory or other test which the examining physician deems necessary by sound medical practice. The content of medical examinations made available pursuant to paragraph (j)(3)(i)(C) - (D) of this section shall be determined by an examining physician and, if requested by an employee, shall include pregnancy testing or laboratory evaluation of male fertility.

1910.1025(j)(3)(iii)

Multiple physician review mechanism.

1910.1025(j)(3)(iii)(A)

If the employer selects the initial physician who conducts any medical examination or consultation provided to an employee under this section, the employee may designate a second physician:

1910.1025(j)(3)(iii)(A)(1)

To review any findings, determinations or recommendations of the initial physician; and

..1910.1025(j)(3)(iii)(A)(2)

1910.1025(j)(3)(iii)(A)(2)

To conduct such examinations, consultations, and laboratory tests as the second physician deems necessary to facilitate this review.

1910.1025(j)(3)(iii)(B)

The employer shall promptly notify an employee of the right to seek a second medical opinion after each occasion that an initial physician conducts a medical examination or consultation pursuant to this section. The employer may condition its participation in, and payment for, the multiple physician review mechanism upon the employee doing the following within fifteen (15) days after receipt of the foregoing notification, or receipt of the initial physician's written opinion, whichever is later:

1910.1025(j)(3)(iii)(B)(1)

The employee informing the employer that he or she intends to seek a second medical opinion, and

1910.1025(j)(3)(iii)(B)(2)

The employee initiating steps to make an appointment with a second physician.

1910.1025(j)(3)(iii)(C)

If the findings, determinations or recommendations of the second physician differ from those of the initial physician, then the employer and the employee shall assure that efforts are made for the two physicians to resolve any disagreement.

1910.1025(j)(3)(iii)(D)

If the two physicians have been unable to quickly resolve their disagreement, then the employer and the employee through their respective physicians shall designate a third physician:

..1910.1025(j)(3)(iii)(D)(1)

1910.1025(j)(3)(iii)(D)(1)

To review any findings, determinations or recommendations of the prior physicians; and

1910.1025(j)(3)(iii)(D)(2)

To conduct such examinations, consultations, laboratory tests and discussions with the prior physicians as the third physician deems necessary to resolve the disagreement of the prior physicians.

1910.1025(j)(3)(iii)(E)

The employer shall act consistent with the findings, determinations and recommendations of the third physician, unless the employer and the employee reach an agreement which is otherwise consistent with the recommendations of at least one of the three physicians.

1910.1025(j)(3)(iv)

Information provided to examining and consulting physicians.

1910.1025(j)(3)(iv)(A)

The employer shall provide an initial physician conducting a medical examination or consultation under this section with the following information:

1910.1025(j)(3)(iv)(A)(1)

A copy of this regulation for lead including all Appendices;

1910.1025(j)(3)(iv)(A)(2)

A description of the affected employee's duties as they relate to the employee's exposure;

1910.1025(j)(3)(iv)(A)(3)

The employee's exposure level or anticipated exposure level to lead and to any other toxic substance (if applicable);

..1910.1025(j)(3)(iv)(A)(4)

1910.1025(j)(3)(iv)(A)(4)

A description of any personal protective equipment used or to be used;

1910.1025(j)(3)(iv)(A)(5)

Prior blood lead determinations; and

1910.1025(j)(3)(iv)(A)(6)

All prior written medical opinions concerning the employee in the employer's possession or

control.

1910.1025(j)(3)(iv)(B)

The employer shall provide the foregoing information to a second or third physician conducting a medical examination or consultation under this section upon request either by the second or third physician, or by the employee.

1910.1025(j)(3)(v)

Written medical opinions.

1910.1025(j)(3)(v)(A)

The employer shall obtain and furnish the employee with a copy of a written medical opinion from each examining or consulting physician which contains the following information:

1910.1025(j)(3)(v)(A)(1)

The physician's opinion as to whether the employee has any detected medical condition which would place the employee at increased risk of material impairment of the employee's health from exposure to lead;

1910.1025(j)(3)(v)(A)(2)

Any recommended special protective measures to be provided to the employee, or limitations to be placed upon the employee's exposure to lead;

..1910.1025(j)(3)(v)(A)(3)

1910.1025(j)(3)(v)(A)(3)

Any recommended limitation upon the employee's use of respirators, including a determination of whether the employee can wear a powered air purifying respirator if a physician determines that the employee cannot wear a negative pressure respirator; and

1910.1025(j)(3)(v)(A)(4)

The results of the blood lead determinations.

1910.1025(j)(3)(v)(B)

The employer shall instruct each examining and consulting physician to:

1910.1025(j)(3)(v)(B)(1)

Not reveal either in the written opinion, or in any other means of communication with the employer, findings, including laboratory results, or diagnoses unrelated to an employee's occupational exposure to lead; and

1910.1025(j)(3)(v)(B)(2)

Advise the employee of any medical condition, occupational or nonoccupational, which dictates further medical examination or treatment.

1910.1025(j)(3)(vi)

Alternate Physician Determination Mechanisms. The employer and an employee or authorized employee representative may agree upon the use of any expeditious alternate physician determination mechanism in lieu of the multiple physician review mechanism provided by this paragraph so long as the alternate mechanism otherwise satisfies the requirements contained in this paragraph.

1910.1025(j)(4)

Chelation.

1910.1025(j)(4)(i)

The employer shall assure that any person whom he retains, employs, supervises or controls does not engage in prophylactic chelation of any employee at any time.

..1910.1025(j)(4)(ii)

1910.1025(j)(4)(ii)

If therapeutic or diagnostic chelation is to be performed by any person in paragraph (j)(4)(i), the employer shall assure that it be done under the supervision of a licensed physician in a clinical setting with thorough and appropriate medical monitoring and that the employee is notified in writing prior to its occurrence.

1910.1025(k)

Medical Removal Protection -

1910.1025(k)(1)

Temporary medical removal and return of an employee -

1910.1025(k)(1)(i)

Temporary removal due to elevated blood lead levels -

1910.1025(k)(1)(i)(A)

The employer shall remove an employee from work having an exposure to lead at or above the action level on each occasion that a periodic and a follow-up blood sampling test conducted pursuant to this section indicate that the employee's blood lead level is at or above 60 ug/100 g of whole blood; and,

1910.1025(k)(1)(i)(B)

The employer shall remove an employee from work having an exposure to lead at or above the action level on each occasion that the average of the last three blood sampling tests conducted pursuant to this section (or the average of all blood sampling tests conducted over the previous six (6) months, whichever is longer) indicates that the employee's blood lead level is at or above 50 ug/100 g of whole blood; provided, however, that an employee need not be removed if the last blood sampling test indicates a blood lead level at or below 40 ug/100 g of whole blood.

..1910.1025(k)(1)(ii)

1910.1025(k)(1)(ii)

Temporary removal due to a final medical determination.

1910.1025(k)(1)(ii)(A)

The employer shall remove an employee from work having an exposure to lead at or above the action level on each occasion that a final medical determination results in a medical finding, determination, or opinion that the employee has a detected medical condition which places the employee at increased risk of material impairment to health from exposure to lead.

1910.1025(k)(1)(ii)(B)

For the purposes of this section, the phrase "final medical determination" shall mean the outcome of the multiple physician review mechanism or alternate medical determination mechanism used pursuant to the medical surveillance provisions of this section.

1910.1025(k)(1)(ii)(C)

Where a final medical determination results in any recommended special protective measures for an employee, or limitations on an employee's exposure to lead, the employer shall implement and act consistent with the recommendation.

1910.1025(k)(1)(iii)

Return of the employee to former job status.

1910.1025(k)(1)(iii)(A)

The employer shall return an employee to his or her former job status:

1910.1025(k)(1)(iii)(A)(1)

For an employee removed due to a blood lead level at or above 60 ug/100 g, or due to an average blood lead level at or above 50 ug/100 g, when two consecutive blood sampling tests indicate that the employee's blood lead level is at or below 40 ug/100 g of whole blood;

..1910.1025(k)(1)(iii)(A)(2)

1910.1025(k)(1)(iii)(A)(2)

For an employee removed due to a final medical determination, when a subsequent final medical determination results in a medical finding, determination, or opinion that the employee no longer has a detected medical condition which places the employee at increased risk of material impairment to health from exposure to lead.

1910.1025(k)(1)(iii)(B)

For the purposes of this section, the requirement that an employer return an employee to his or her former job status is not intended to expand upon or restrict any rights an employee has or would have had, absent temporary medical removal, to a specific job classification or position under the terms of a collective bargaining agreement.

1910.1025(k)(1)(iv)

Removal of other employee special protective measure or limitations. The employer shall remove any limitations placed on an employee or end any special protective measures provided to an employee pursuant to a final medical determination when a subsequent final medical determination indicates that the limitations or special protective measures are no longer necessary.

1910.1025(k)(1)(v)

Employer options pending a final medical determination. Where the multiple physician review mechanism, or alternate medical determination mechanism used pursuant to the medical surveillance provisions of this section, has not yet resulted in a final medical determination with respect to an employee, the employer shall act as follows:

..1910.1025(k)(1)(v)(A)

1910.1025(k)(1)(v)(A)

Removal. The employer may remove the employee from exposure to lead, provide special protective measures to the employee, or place limitations upon the employee, consistent with the medical findings, determinations, or recommendations of any of the physicians who have reviewed the employee's health status.

1910.1025(k)(1)(v)(B)

Return. The employer may return the employee to his or her former job status, end any special protective measures provided to the employee, and remove any limitations placed upon the employee, consistent with the medical findings, determinations, or recommendations of any of the physicians who have reviewed the employee's health status, with two exceptions. If -

1910.1025(k)(1)(v)(B)(1)

the initial removal, special protection, or limitation of the employee resulted from a final medical determination which differed from the findings, determinations, or recommendations

of the initial physician or

1910.1025(k)(1)(v)(B)(2)

The employee has been on removal status for the preceding eighteen months due to an elevated blood lead level, then the employer shall await a final medical determination.

1910.1025(k)(2)

Medical removal protection benefits -

1910.1025(k)(2)(i)

Provision of medical removal protection benefits. The employer shall provide to an employee up to eighteen (18) months of medical removal protection benefits on each occasion that an employee is removed from exposure to lead or otherwise limited pursuant to this section.

..1910.1025(k)(2)(ii)

1910.1025(k)(2)(ii)

Definition of medical removal protection benefits. For the purposes of this section, the requirement that an employer provide medical removal protection benefits means that the employer shall maintain the earnings, seniority and other employment rights and benefits of an employee as though the employee had not been removed from normal exposure to lead or otherwise limited.

1910.1025(k)(2)(iii)

Follow-up medical surveillance during the period of employee removal or limitation. During the period of time that an employee is removed from normal exposure to lead or otherwise limited, the employer may condition the provision of medical removal protection benefits upon the employee's participation in follow-up medical surveillance made available pursuant to this section.

1910.1025(k)(2)(iv)

Workers' compensation claims. If a removed employee files a claim for workers' compensation payments for a lead-related disability, then the employer shall continue to provide medical removal protection benefits pending disposition of the claim. To the extent that an award is made to the employee for earnings lost during the period of removal, the employer's medical removal protection obligation shall be reduced by such amount. The employer shall receive no credit for workers' compensation payments received by the employee for treatment related expenses.

1910.1025(k)(2)(v)

Other credits. The employer's obligation to provide medical removal protection benefits to a removed employee shall be reduced to the extent that the employee receives compensation for earnings lost during the period of removal either from a publicly or employer-funded

compensation program, or receives income from employment with another employer made possible by virtue of the employee's removal.

..1910.1025(k)(2)(vi)

1910.1025(k)(2)(vi)

Employees whose blood lead levels do not adequately decline within 18 months of removal. The employer shall take the following measures with respect to any employee removed from exposure to lead due to an elevated blood lead level whose blood lead level has not declined within the past eighteen (18) months of removal so that the employee has been returned to his or her former job status:

1910.1025(k)(2)(vi)(A)

The employer shall make available to the employee a medical examination pursuant to this section to obtain a final medical determination with respect to the employee;

1910.1025(k)(2)(vi)(B)

The employer shall assure that the final medical determination obtained indicates whether or not the employee may be returned to his or her former job status, and if not, what steps should be taken to protect the employee's health;

1910.1025(k)(2)(vi)(C)

Where the final medical determination has not yet been obtained, or once obtained indicates that the employee may not yet be returned to his or her former job status, the employer shall continue to provide medical removal protection benefits to the employee until either the employee is returned to former job status, or a final medical determination is made that the employee is incapable of ever safely returning to his or her former job status.

..1910.1025(k)(2)(vi)(D)

1910.1025(k)(2)(vi)(D)

Where the employer acts pursuant to a final medical determination which permits the return of the employee to his or her former job status despite what would otherwise be an unacceptable blood lead level, later questions concerning removing the employee again shall be decided by a final medical determination. The employer need not automatically remove such an employee pursuant to the blood lead level removal criteria provided by this section.

1910.1025(k)(2)(vii)

Voluntary Removal or Restriction of An Employee. Where an employer, although not required by this section to do so, removes an employee from exposure to lead or otherwise places limitations on an employee due to the effects of lead exposure on the employee's medical condition, the employer shall provide medical removal protection benefits to the employee equal to that required by paragraph (k)(2)(i) of this section.

1910.1025(l)

Employee information and training -

1910.1025(l)(1)

Training program.

1910.1025(l)(1)(i)

Each employer who has a workplace in which there is a potential exposure to airborne lead at any level shall inform employees of the content of Appendices A and B of this regulation.

1910.1025(l)(1)(ii)

The employer shall institute a training program for and assure the participation of all employees who are subject to exposure to lead at or above the action level or for whom the possibility of skin or eye irritation exists.

..1910.1025(l)(1)(iii)

1910.1025(l)(1)(iii)

The employer shall provide initial training by 180 days from the effective date for those employees covered by paragraph (l)(1)(ii) on the standard's effective date and prior to the time of initial job assignment for those employees subsequently covered by this paragraph.

1910.1025(l)(1)(iv)

The training program shall be repeated at least annually for each employee.

1910.1025(l)(1)(v)

The employer shall assure that each employee is informed of the following:

1910.1025(l)(1)(v)(A)

The content of this standard and its appendices;

1910.1025(l)(1)(v)(B)

The specific nature of the operations which could result in exposure to lead above the action level;

1910.1025(l)(1)(v)(C)

The purpose, proper selection, fitting, use, and limitations of respirators;

1910.1025(l)(1)(v)(D)

The purpose and a description of the medical surveillance program, and the medical removal protection program including information concerning the adverse health effects associated with excessive exposure to lead (with particular attention to the adverse reproductive effects on both males and females);

1910.1025(l)(1)(v)(E)

The engineering controls and work practices associated with the employee's job assignment;

..1910.1025(l)(1)(v)(F)

1910.1025(l)(1)(v)(F)

The contents of any compliance plan in effect; and

1910.1025(l)(1)(v)(G)

Instructions to employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician;

1910.1025(l)(2)

Access to information and training materials.

1910.1025(l)(2)(i)

The employer shall make readily available to all affected employees a copy of this standard and its appendices.

1910.1025(l)(2)(ii)

The employer shall provide, upon request, all materials relating to the employee information and training program to the Assistant Secretary and the Director.

1910.1025(l)(2)(iii)

In addition to the information required by paragraph (l)(1)(v), the employer shall include as part of the training program, and shall distribute to employees, any materials pertaining to the Occupational Safety and Health Act, the regulations issued pursuant to that Act, and this lead standard, which are made available to the employer by the Assistant Secretary.

..1910.1025(m)

1910.1025(m)

Signs -

1910.1025(m)(1)

General.

1910.1025(m)(1)(i)

The employer may use signs required by other statutes, regulations or ordinances in addition to, or in combination with, signs required by this paragraph.

1910.1025(m)(1)(ii)

The employer shall assure that no statement appears on or near any sign required by this paragraph which contradicts or detracts from the meaning of the required sign.

1910.1025(m)(2)

Signs.

1910.1025(m)(2)(i)

The employer shall post the following warning signs in each work area where the PEL is exceeded:

WARNING
LEAD WORK AREA
POISON
NO SMOKING OR EATING

1910.1025(m)(2)(ii)

The employer shall assure that signs required by this paragraph are illuminated and cleaned as necessary so that the legend is readily visible.

1910.1025(n)

Recordkeeping -

1910.1025(n)(1)

Exposure monitoring.

1910.1025(n)(1)(i)

The employer shall establish and maintain an accurate record of all monitoring required in paragraph (d) of this section.

1910.1025(n)(1)(ii)

This record shall include:

1910.1025(n)(1)(ii)(A)

The date(s), number, duration, location and results of each of the samples taken, including a description of the sampling procedure used to determine representative employee exposure where applicable;

..1910.1025(n)(1)(ii)(B)

1910.1025(n)(1)(ii)(B)

A description of the sampling and analytical methods used and evidence of their accuracy;

1910.1025(n)(1)(ii)(C)

The type of respiratory protective devices worn, if any;

1910.1025(n)(1)(ii)(D)

Name, social security number, and job classification of the employee monitored and of all other employees whose exposure the measurement is intended to represent; and

1910.1025(n)(1)(ii)(E)

The environmental variables that could affect the measurement of employee exposure.

1910.1025(n)(1)(iii)

The employer shall maintain these monitoring records for at least 40 years or for the duration of employment plus 20 years, whichever is longer.

1910.1025(n)(2)

Medical surveillance.

1910.1025(n)(2)(i)

The employer shall establish and maintain an accurate record for each employee subject to medical surveillance as required by paragraph (j) of this section.

1910.1025(n)(2)(ii)

This record shall include:

1910.1025(n)(2)(ii)(A)

The name, social security number, and description of the duties of the employee;

..1910.1025(n)(2)(ii)(B)

1910.1025(n)(2)(ii)(B)

A copy of the physician's written opinions;

1910.1025(n)(2)(ii)(C)

Results of any airborne exposure monitoring done for that employee and the representative exposure levels supplied to the physician; and

1910.1025(n)(2)(ii)(D)

Any employee medical complaints related to exposure to lead.

1910.1025(n)(2)(iii)

The employer shall keep, or assure that the examining physician keeps, the following medical records:

1910.1025(n)(2)(iii)(A)

A copy of the medical examination results including medical and work history required under paragraph (j) of this section;

1910.1025(n)(2)(iii)(B)

A description of the laboratory procedures and a copy of any standards or guidelines used to interpret the test results or references to that information;

1910.1025(n)(2)(iii)(C)

A copy of the results of biological monitoring.

1910.1025(n)(2)(iv)

The employer shall maintain or assure that the physician maintains those medical records for at least 40 years, or for the duration of employment plus 20 years, whichever is longer.

..1910.1025(n)(3)

1910.1025(n)(3)

Medical removals.

1910.1025(n)(3)(i)

The employer shall establish and maintain an accurate record for each employee removed from current exposure to lead pursuant to paragraph (k) of this section.

1910.1025(n)(3)(ii)

Each record shall include:

1910.1025(n)(3)(ii)(A)

The name and social security number of the employee;

1910.1025(n)(3)(ii)(B)

The date on each occasion that the employee was removed from current exposure to lead as well as the corresponding date on which the employee was returned to his or her former job status;

1910.1025(n)(3)(ii)(C)

A brief explanation of how each removal was or is being accomplished; and

1910.1025(n)(3)(ii)(D)

A statement with respect to each removal indicating whether or not the reason for the removal was an elevated blood lead level.

1910.1025(n)(3)(iii)

The employer shall maintain each medical removal record for at least the duration of an employee's employment.

1910.1025(n)(4)

Availability.

1910.1025(n)(4)(i)

The employer shall make available upon request all records required to be maintained by paragraph (n) of this section to the Assistant Secretary and the Director for examination and copying.

..1910.1025(n)(4)(ii)

1910.1025(n)(4)(ii)

Environmental monitoring, medical removal, and medical records required by this paragraph shall be provided upon request to employees, designated representatives, and the Assistant Secretary in accordance with 29 CFR 1910.1020 (a)-(e) and (2)-(i). Medical removal records shall be provided in the same manner as environmental monitoring records.

1910.1025(n)(5)

Transfer of records.

1910.1025(n)(5)(i)

Whenever the employer ceases to do business, the successor employer shall receive and

retain all records required to be maintained by paragraph (n) of this section.

1910.1025(n)(5)(ii)

Whenever the employer ceases to do business and there is no successor employer to receive and retain the records required to be maintained by this section for the prescribed period, these records shall be transmitted to the Director.

1910.1025(n)(5)(iii)

At the expiration of the retention period for the records required to be maintained by this section, the employer shall notify the Director at least 3 months prior to the disposal of such records and shall transmit those records to the Director if requested within the period.

1910.1025(n)(5)(iv)

The employer shall also comply with any additional requirements involving transfer of records set forth in 29 CFR 1910.1020(h).

1910.1025(o)

Observation of monitoring.

1910.1025(o)(1)

Employee observation. The employer shall provide affected employees or their designated representatives an opportunity to observe any monitoring of employee exposure to lead conducted pursuant to paragraph (d) of this section.

..1910.1025(o)(2)

1910.1025(o)(2)

Observation procedures.

1910.1025(o)(2)(i)

Whenever observation of the monitoring of employee exposure to lead requires entry into an area where the use of respirators, protective clothing or equipment is required, the employer shall provide the observer with and assure the use of such respirators, clothing and such equipment, and shall require the observer to comply with all other applicable safety and health procedures.

1910.1025(o)(2)(ii)

Without interfering with the monitoring, observers shall be entitled to:

1910.1025(o)(2)(ii)(A)

Receive an explanation of the measurement procedures;

1910.1025(o)(2)(ii)(B)

Observe all steps related to the monitoring of lead performed at the place of exposure; and

1910.1025(o)(2)(ii)(C)

Record the results obtained or receive copies of the results when returned by the laboratory.

1910.1025(p)

Effective date. This standard shall become effective March 1, 1979.

1910.1025(q)

Appendices. The information contained in the appendices to this section is not intended by itself, to create any additional obligations not otherwise imposed by this standard nor detract from any existing obligation.

1910.1025(r)

Startup dates. All obligations of this standard commence on the effective date except as follows:

1910.1025(r)(1)

The initial determination under paragraph (d)(2) shall be made as soon as possible but no later than 30 days from the effective date.

..1910.1025(r)(2)

1910.1025(r)(2)

Initial monitoring under paragraph (d)(4) shall be completed as soon as possible but no later than 90 days from the effective date.

1910.1025(r)(3)

Initial biological monitoring and medical examinations under paragraph (j) shall be completed as soon as possible but no later than 180 days from the effective date. Priority for biological monitoring and medical examinations shall be given to employees whom the employer believes to be at greatest risk from continued exposure.

1910.1025(r)(4)

Initial training and education shall be completed as soon as possible but no later than 180 days from the effective date.

1910.1025(r)(5)

Hygiene and lunchroom facilities under paragraph (i) shall be in operation as soon as

possible but no later than 1 year from the effective year.

1910.1025(r)(6)

-

1910.1025(r)(6)(i)

Respiratory protection required by paragraph (f) shall be provided as soon as possible but no later than the following schedule:

1910.1025(r)(6)(i)(A)

Employees whose 8-hour TWA exposure exceeds 200 ug/m(3)-on the effective date.

1910.1025(r)(6)(i)(B)

Employees whose 8-hour TWA exposure exceeds the PEL but is less than 200 ug/m(3)-150 days from the effective date.

..1910.1025(r)(6)(i)(C)

1910.1025(r)(6)(i)(C)

Powered, air-purifying respirators provided under (f)(2)(ii)-210 days from the effective date.

1910.1025(r)(6)(i)(D)

Quantitative fit testing required under (f)(3)(ii)-one year from effective date. Qualitative fit testing is required in the interim.

1910.1025(r)(7)

-

1910.1025(r)(7)(i)

Written compliance plans required by paragraph (e)(3) shall be completed and available for inspection and copying as soon as possible but no later than the following schedule:

1910.1025(r)(7)(i)(A)

Employers for whom compliance with the PEL or interim level is required within 1 year from the effective date-6 months from the effective date.

1910.1025(r)(7)(i)(B)

Employers in secondary smelting and refining, lead storage battery manufacturing lead pigment manufacturing and nonferrous foundry industries-1 year from the effective date.

1910.1025(r)(7)(i)(C)

Employers in primary smelting and refining industry-1 year from the effective date for the interim level; 5 years from the effective date for PEL.

1910.1025(r)(7)(i)(D)

Plans for construction of hygiene facilities, if required-6 months from the effective date.

..1910.1025(r)(8)

1910.1025(r)(8)

The permissible exposure limit in paragraph (c) shall become effective 150 days from the effective date.

[60 FR 52856, Oct. 11, 1995; 61 FR 5507, Feb. 13, 1996; 63 FR 1152, Jan. 8, 1998; 63 FR 20098, April 23, 1998]

Next Standard (1910.1025 App A)

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Occupational Safety & Health Administration
200 Constitution Avenue, NW
Washington, DC 20210

LAW OFFICES
NESS, MOTLEY, LOADHOLT, RICHARDSON & POOLE
PROFESSIONAL ASSOCIATION

28 BRIDGESIDE BOULEVARD
POST OFFICE BOX 1792
MT. PLEASANT, SOUTH CAROLINA 29465
843-216-9000 FAX # 843-216-9450
E-MAIL: nmlrp@nmlrp.com

LEAD PROJECT
DIRECT DIAL: 843-216-9681
FAX: 843-216-9430
TOLL FREE: 888-775-LEAD
888-775-5323

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PROVIDENCE, RHODE ISLAND
NEW ORLEANS, LOUISIANA
RALEIGH, NORTH CAROLINA

September 10, 2001

City of Burlington Fire Department
418 Valley Street
Frankfort, IN 52601

Re: Request for Information

Dear Sir or Madam:

This letter is a request for any information and/or reports that you may that involve the Exide Corporation site in Burlington. Should there be a charge for the copying of these materials, please let me know so that a check can be sent immediately.

If you have any questions, please do not hesitate to contact me at 843.216.9387. Thank you for your assistance with this matter.

Sincerely,

Amy R. Semken
Paralegal

Here are copies of my inspections back to 1997. Also enclosed are copies of all the fire reports I can find on the computer back to 1993. I did not copy false alarms.

There is not charge for these copies as it took me so long for me to get them to you

W.W. Hartman
Fire Marshal

Fire Incident Report

Burlington Fire Department

	FDID	Incident No	Exp.	Date	Day of Week	Alarm Time	Arrival	In Service
A	29001	00000526	000	8/1/93	Sunday 1	20:59	21:03	22:09

	Type of Situation Found		Type of Action Taken		Mut. Aid
B	Structure Fire	11	Secured Scene	4	

	Fixed Property Use		Ignition Factor	
C	Electrical/Electronic	776	Other Electrical Failure	55

	Correct Address	Zip Code	Census Tract
D	3400 West Ave.	52601	

	Occupant Name (Last, First, M.)	Telephone	Room or Apt.
E	Exide Corp.	(319) 752-2713	

	Owner Name (Last, First, M.)	Address	Telephone
F	Exide Corp.	Box #14205 Reading PA.	(215) 378-0500

	Method of Alarm from Public		District	Shift	No. Alarms
G	Telephone (Direct)	1	1	3	2

	No. Fire Personnel	No. Engines	No. Aerials	No. Other
H	13	3	0	4

	No. of Injuries		No. of Fatalities	
I	Fire Service 0	Other 1	Fire Service 0	Other 0

	Complex		Mobile Property Type	
J	Industrial Plant Complex	70	Mobile Property N/A	08

	Area of Origin		Equipment Involved in Ignition	
K	Process, Manufacture Area	38	Not Classified	99

	Form of Heat of Ignition		Type of Material Ignited		Form of Material Ignited	
L	Unspecified Short-circuit	24	Plastic, Insufficient Info	40	Palletized Materials, Mats	85

	Method of Estinguishment		Level of Fire Origin		Estimated Loss
M	Portable extinguisher	3	Grade to 9 feet above	1	3000

	Number of Stories		Construction Type	
N	1 story	1	Unprotected Non-Combustible	4

	Extent of Flame Damage		Extent of Smoke Damage	
O	Confined-object of origin	1	No damage of this type	9

	Detector Performance		Sprinkler Performance	
P	Undetermined/Not Reported	0	Present-fire too small	3

	If Smoke Spread Beyond Room of Origin	Type of Mat. Generating Most Smoke		Avenue of Smoke Travel	
Q		Plastic, Insufficient Info	40	Undetermined/Not Reported	0
R		Form of Mat. Generating Most Smoke			
		Palletized Materials, Mats	85		

	If Mobile Property	Year	Make	Model	Serial No.	License No
S						

	If Equip	Year	Make	Model	Serial No.
T			n/a	n/a	n/a

	Officer in Charge	Position	Assignment	Date
U	Rex Mundt	B/C	I/C	8/1/93
	Member Making Report (If Different)	Position	Assignment	Date
				00/00/00

Comments

Comments for this incident have been printed on an additional comments page.

Comments for Incident: 93 000526 Exposure: 00 Date: 8/1/93

Upon arrival we found a pallet of batteries that had been on fire. An employee had extinguished the fire with portable fire extinguishers. We found light to heavy smoke throughout the plant and evacuated all employees. The one employee that had extinguished the fire suffered smoke inhalation, and was transported to the hospital via ambulance.
The Fire Marshall was called to assist the investigation. It appears there had been an electrical short within a pallet of batteries, but the incident is still under investigation.
There was a release of battery acid due to damaged batteries. All fire fighters involved in handling the incident worn SCBAs and were decontaminated following the incident. We used soda ash, supplied by Exide, to neutralized the spilled acid.
On 8/2/93 I (M.W. Hartman) talked with Bill Schaefer from Exide as to the cause of the fire. He and his people could not come up with a cause other than a short inside one of the batteries. The fire started on the third row down on the pallet of batteries. MWH

Fire Incident Report

Burlington Fire Department

	FDID	Incident No	Exp.	Date	Day of Week	Alarm Time	Arrival	In Service
A	29001	00000079	000	1/30/95	Monday 2	00:36	00:42	01:09

	Type of Situation Found		Type of Action Taken		Mut. Aid
B	Structure Fire	11	Extinguishment	1	

	Fixed Property Use		Ignition Factor	
C	Electrical/Electronic	776	Rekindled Previous Fire	92

	Correct Address	Zip Code	Census Tract
D	3400 West	52601	

	Occupant Name (Last, First, M.)	Telephone	Room or Apt.
E	Exide Battery Co.	(319) 752-2713	N/A

	Owner Name (Last, First, M.)	Address	Telephone
F	Exide Battery Co.	Reading, PA	(000) 000-0000

	Method of Alarm from Public		District	Shift	No. Alarms
G	Telephone (Direct/911)	1	3	3	1

	No. Fire Personnel	No. Engines	No. Aerials	No. Other
H	12	2	0	2

	No. of Injuries		No. of Fatalities	
I	Fire Service 0	Other 0	Fire Service 0	Other 0

	Complex		Mobile Property Type	
J	Industrial Plant Complex	70	Mobile Property N/A	08

	Area of Origin		Equipment Involved in Ignition	
K	Trash Area, Container	46	No Equipment Involved	98

	Form of Heat of Ignition		Type of Material Ignited		Form of Material Ignited	
L	Heat of Ign Undetermined	00	Type of Mat, Not Class	99	Dust, Fiber, Lint	81

	Method of Estinguishment		Level of Fire Origin		Estimated Loss
M	Preconnect from tanks	5	10 to 19 feet above	2	0

	Number of Stories		Construction Type	
N	2 stories	2	Unprotected Non-Combustible	4

	Extent of Flame Damage		Extent of Smoke Damage	
O	Confined-object of origin	1	No damage of this type	9

	Detector Performance		Sprinkler Performance	
P	No detectors present	8	No equipment present	8

	If Smoke Spread Beyond Room of Origin	Type of Mat. Generating Most Smoke		Avenue of Smoke Travel	
Q		Type of Mat, Not Class	99	No significant avenue	8
R		Form of Mat. Generating Most Smoke: Form of Mat Undetermined	00		

	If Mobile Property	Year	Make	Model	Serial No.	License No
S						
T	If Equip	Year	Make	Model	Serial No.	

	Officer in Charge	Position	Assignment	Date
U	R. McAnally	B/C	I/C	1/30/95
	Member Making Report (If Different)	Position	Assignment	Date
				00/00/00

Comments

Comments for this incident have been printed on an additional comments page.

Comments for Incident: 95 000079 Exposure: 00 Date: 1/30/95

Maintenance personnel opened lower access panels to assess damage from original fire and found coals still burning.

CFS #95-3139 Hose (ft.) 1 3/4">> 200
Vehicles Responding>> E1 E3 S15 C16
Personnel: Shift #3>> R.McAnally K.Morris M.Whalen J.Cochran J.Newberry T.Gubba T.Clements J.Werner D.Babcock G.Higdon B.Luers W.Kroll

Fire Incident Report

Burlington Fire Department

	FDID	Incident No	Exp.	Date	Day of Week	Alarm Time	Arrival	In Service
A	29001	00000078	000	1/29/95	Sunday 1	21:03	21:08	22:59

	Type of Situation Found		Type of Action Taken		Mut. Aid
B	Structure Fire	11	Extinguishment	1	

	Fixed Property Use		Ignition Factor	
C	Electrical/Electronic	776	Automatic Control Failure	52

	Correct Address	Zip Code	Census Tract
D	3400 West	52601	

	Occupant Name (Last, First, M.)	Telephone	Room or Apt.
E	Exide Battery Co.	(319) 752-2713	N/A

	Owner Name (Last, First, M.)	Address	Telephone
F	Exide Battery Co.	Reading, PA	(000) 000-0000

	Method of Alarm from Public		District	Shift	No. Alarms
G	Telephone (Direct/911)	1	3	3	1

	No. Fire Personnel	No. Engines	No. Aerials	No. Other
H	13	2	0	3

	No. of Injuries		No. of Fatalities	
I	Fire Service 0	Other 0	Fire Service 0	Other 0

	Complex		Mobile Property Type	
J	Industrial Plant Complex	70	Mobile Property N/A	08

	Area of Origin		Equipment Involved in Ignition	
K	Trash Area, Container	46	No Equipment Involved	98

	Form of Heat of Ignition		Type of Material Ignited		Form of Material Ignited	
L	Heat of Ign Undetermined	00	Type of Mat, Not Class	99	Dust, Fiber, Lint	81

	Method of Estinguishment		Level of Fire Origin		Estimated Loss
M	Preconnect from tanks	5	20-29 feet above	3	2500

	Number of Stories		Construction Type	
N	2 stories	2	Unprotected Non-Combustible	4

	Extent of Flame Damage		Extent of Smoke Damage	
O	Confined-object of origin	1	Extended beyond structure	7

	Detector Performance		Sprinkler Performance	
P	No detectors present	8	No equipment present	8

	If Smoke Spread Beyond Room of Origin	Type of Mat. Generating Most Smoke		Avenue of Smoke Travel	
Q		Type of Mat, Not Class	99	Air handling duct	1
R		Form of Mat. Generating Most Smoke		81	

	If Mobile Property	Year	Make	Model	Serial No.	License No
S						
T	If Equip	Year	Make	Model	Serial No.	

	Officer in Charge	Position	Assignment	Date
U	R. McAnally	B/C	I/C	1/29/95
	Member Making Report (If Different)	Position	Assignment	Date
				00/00/00

Comments

Comments for this incident have been printed on an additional comments page.

Comments for Incident: 95 000078 Exposure: 00 Date: 1/29/95

Lead dust fire in dust collection system. In addition to the BFD CO2 extinguisher, used several of Exide's dry chemical extinguishers.

CFS #95-3124 Hose (ft.) 1 3/4">> 200 Masks>> 6 Extinguishers Used>> 1 Type>> CO
Vehicles Responding>> E1 E3 S15 C16 C18
Personnel: Shift #3>> R.McAnally K.Morris M.Whalen J.Cochran J.Newberry T.Gubba T.Clements J.Werner D.Babcock G.Higdon B.Luers W.Kroll
Administration>> M.Hartman

Iowa Division of Labor Services
Occupational Safety and Health Bureau

Citation and Notification of Penalty

000 East Grand
es Moines, IA 50319

1. Type of Violation(s)	2. Citation Number
Serious	01

The violation(s) described in this Citation are alleged to have occurred on or about the day the inspection was made unless otherwise indicated within the description given below.

3. Issuance Date	4. Inspection Number
01/30/91	104253836
5. Reporting ID	6. CSHO ID
0751910	B7959
7. Optional Report No.	8. Page No.
2632	1 of 3

10. Inspection Date(s):
1/2/91 - 1/18/91

11. Inspection Site:
3400 West Avenue
Burlington, IA 52601

9. To:
Exide Corporation
and its successors
P.O. Box 516
Burlington, IA 52601

Penalties Are Due Within 15 Days of Receipt of This Notification Unless Contested

This Section May Be Detached Before Posting

THE LAW REQUIRES that a copy of this Citation be posted immediately in a prominent place at or near the location of the violation(s) cited below. The Citation must remain posted until the violations cited below have been corrected, or for 3 working days (excluding weekends and holidays) whichever is longer. This citation describes violations of the Iowa Occupational Safety and Health Act. The penalty(ies) listed below are based on these violations. You must correct the violations referred to in this citation by the dates listed below and pay the penalties proposed, unless within 15 working days (excluding weekends and holidays) from your receipt of this citation and penalty you mail a notice of contest to the Iowa Division of Labor Services, Des Moines, Iowa. If the citation(s) and/or penalty(ies) are not contested they will become a final order of the Iowa Employment Appeal Board and will not be subject to review by any court or Agency.

12. Item Number / 13. Standard, Regulation or Section of the Act Violated	14. Description	15. Date by Which Violation Must Be Abated	16. Penalty
	e issuance of this citation does not constitute a finding that a olation of the Act has occurred unless there is a failure to contest provided for in the Act or, if contested, unless the citation is firmed by the Iowa Employment Appeal Board.		
	IAC 347 - Chapter 10 10.1025(h)(1): All surfaces were not maintained as free as acticable of accumulations of lead: (a) In the Oxide Mill Area - Employees were manufacturing lead oxide. Dust was allowed to accumulate on the piping, ducts and equipment surfaces. Heavy accumulations of lead oxide dust (i.e., spills three to four inches deep) were observed at the in-feed conveyor to each mill. This violation occurred on or about 1/3/91. Spills are to be cleaned up immediately due to toxic nature of lead dust. (b) Grid Casting Area - Employees cast battery grids. Battery grid plates and scrap metal had been spilled and were allowed to accumulate. A layer of dust was visible on the floor and on the equipment around the lead pots, dross barrels, grid casting machines and throughout the entire casting area. This violation was noted on or about 1/3/91. (c) Mac Pasting Area - Employees prepared pasted plates. The floor and machinery were covered with lead oxide paste. Lead oxide paste and water was spilled from the Wet Rotoclone to the floor. Water and paste cause slippery footing and may result in falls. Employees complain that sludge handling equipment is either over-loaded or doesn't always function. Lead paste when dry creates toxic lead dust when airborne. This violation was noted on or about 1/3/91.	02/09/91	560.00

MMT001 45744

17. Authorized Representative of the Labor Commissioner:
Mary L. Bryant *Mary L. Bryant*

18. Last Pg

NOTICE TO EMPLOYEES — The law gives an employee or his representative the opportunity to object to any abatement date set for a violation if he believes the date to be unreasonable. The contest must be mailed to the Iowa Division of Labor Services at the address shown above within 15 working days (excluding weekends and holidays) of the receipt by the employer of this citation and penalty.

EMPLOYER DISCRIMINATION UNLAWFUL — The law prohibits discrimination by an employer against an employee for filing a complaint or for exercising any rights under this Act. An employee who believes that he has been discriminated against may file a complaint no later than 30 days after the discrimination with the Iowa Division of Labor Services at the address shown above.

Total Penalty for This Citation

Make Check or Money Order Payable to: "Division of Labor — IOSH"

Indicate Inspection Number on Remittance

Iowa Division of Labor Services
Occupational Safety and Health Bureau

Citation and Notification of Penalty

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12. Item Number / 13. Standard, Regulation or Section of the Act Violated	14. Description	15. Date by Which Violation Must Be Abated	16. Penalty
	(d) Tek Mac Plate Wrapping Operations - Tek Mac wrapping employees wrap pasted battery plates. The equipment down craft work tables contained large accumulations of waste dust and dried paste. This debris apparently reduced dust capture resulting in dust becoming airborne. A coating of oxide paste and dust was observed on the Tek Mac wrapping equipment. This violation was observed on or about 1/3/91.		
	(e) Assembly Line Near the Intercell Burn Operation - An employee forms connections through the partition (TTP). Large accumulations of floor sweepings and scrap were allowed to accumulate under the assembly line conveyor. This violation was noted on or about 1/3/91.		
	(f) Wet Development Area - Employees were preparing batteries for send-out. There were numerous cardboard boxes and battery parts scattered about. Numerous cases were stacked carelessly on skids and the floor; leaning against conveyors and electrical equipment. Cardboard boxes were torn or degraded from acid allowing their contents to spill on the floor. This violation was noted on or about 1/3/91.		
IAC 347 - Chapter 120 !0.4(1): The employer did not ensure that each container hazardous chemicals in the workplace is labeled, tagged or ırked with the appropriate hazard warnings and identity of the ızardous chemicals contained therein:		Immediately Upon Receipt	400.00
	(a) Chemical Storage Area, West Wall - A 55 gallon drum was labeled Cim Cool Cutting fluid and actually contained waste gear box oil. Waste oil may be a hazardous substance. This violation was noted on or about 1/3/91.		

NMT0014574S

17. Authorized Representative of the Labor Commissioner: Mary L. Bryant *Mary L. Bryant*

18. Last Pg

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Indicate Inspection Number on Remittance

CITATION AND NOTIFICATION OF PENALTY
309-6088

IAOSH-2 (Rev. 1/84)

Iowa Division of Labor Services
Occupational Safety and Health Bureau

Citation and Notification of Penalty

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12. Item Number / 13. Standard, Regulation or Section of the Act Violated	14. Description	15. Date by Which Violation Must Be Abated	16. Penalty
	(continued) (b) Water Water Treatment Plant - A 5 gallon pail was used to transfer hydrogen peroxide, a hazardous chemical. This violation occurred on or about 1/3/91.		
IAC 347 - Chapter 120 0.5(1): Employer did not have a material safety data eet for each hazardous chemical used in the workplace:	(a) Maintenance Area - Two chemical products were available for use; (1) quick-set latex concrete repair, an alkaline product possibly containing epoxy resins and crosslinking polymers; and (2) Hy-Solv Plus, a non-flammable degreaser. This violation was noted on or about 1/3/91.	02/09/91	400.00

NMT0014574G

17. Authorized Representative of the Labor Commissioner: Mary L. Bryant Mary L. Bryant

18. $ 1360.00

Total Penalty for This Citation

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***Indicate* Inspection Number *on* Remittance**

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