1997 Toxic Chemical Release Inventory

Emergency Planning and
Community Right-to-Know Act,
Section 313

United States
Department of Energy
Richland, Washington

Approved for Public Release

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1997 Toxic Chemical Release Inventory

Emergency Planning and Community
Right-to-Know Act, Section 313

Date Published
June 1998

**United States
Department of Energy**

P.O. Box 550
Richland, Washington 99352

Approved for Public Release

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☐ Visual Aid
☐ Full Paper
☐ Other _____
- ☐ Journal Article
☐ Internet
☐ Software
☒ Report

B. Document Number DOE/RL-98-39

C. Title

1997 TOXIC CHEMICAL RELEASE INVENTORY

D. Internet Address

E. Required Information

1. Is document potentially Classified? ☒ No ☐ Yes (MANDATORY)

see manager's signature below in Black H. V.B.
 Manager's Signature Required

If Yes _____ ☐ No ☐ Yes Classified
 ADC Signature Required

2. Internal Review Required? ☐ No ☒ Yes
 If Yes, Document Signatures Below

Counsel *NA per Tom Plank, Telecom V.B.*
 Program *Richard A. Kukul*

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5. Will Information be Published in Proceedings? ☐ No ☐ Yes

6. Will Material be Handed Out? ☐ No ☐ Yes

H. Author/Requestor

D. E. ZALOUDEK *Diane Zaloudek*
 (Print and Sign)

Responsible Manager

A. G. WEINER *Key Weiner*
 (Print and Sign)

I. Reviewers

Yes

Print

Signature

Public Y/N (If N, complete J)

General Counsel

☐

Y / N

Office of External Affairs

☐

Y / N

DOE-RL

☒

R. N. Kukul

Richard A. Kukul 4/30/98

☒ N

Other

☐

Y / N

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Information Clearance Approval

K. If Additional Comments, Please Attach Separate Sheet

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Document Number: DOE/RL-98-39

Document Title: 1997 Toxic Chemical Release Inventory
Emergency Planning and Community Right-To-Know Act,
Section 313

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1997 HANFORD SITE TOXIC CHEMICAL RELEASE INVENTORY
DOE/RL-98-39

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(consisting of 1 page)

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(consisting of 2 pages)

Reporting Form R for Phosphoric Acid

(consisting of 5 pages)

1997 HANFORD SITE TOXIC CHEMICAL RELEASE INVENTORY

DOE/RL-98-39

PREFACE

The Hanford Site covers approximately 1,450 square kilometers (560 square miles) of land that is owned by the U.S. Government and managed by the U.S. Department of Energy, Richland Operations Office (DOE-RL). The Hanford Site is located northwest of the city of Richland, Washington. The city of Richland adjoins the southeastern portion of the Hanford Site boundary and is the nearest population center.

The primary mission of the Hanford Site includes waste management, environmental restoration, and research and technology development. Toxic chemical activities managed by DOE-RL and its contractors in support of this mission were considered during preparation of the Toxic Chemical Release Inventory. This report does not include activities conducted by others on lands covered by leases, use permits, easements, and other agreements whereby land is used by parties other than DOE-RL. For example, this report does not include activities conducted by US Ecology, the Bonneville Power Administration, the National Science Foundation (the Laser Interferometer Gravitational-Wave Observatory), the Washington Public Power Supply System, Johnson Controls, Inc. (boilers operated for steam production), R. H. Smith Company (gas stations), or similar activities conducted on leased properties not under the management of DOE-RL.

Two listed toxic chemicals were used at the Hanford Site above established activity thresholds: phosphoric acid and chlorine. Because total combined quantities of chlorine released, disposed, treated, recovered through recycle operations, combusted for energy recovery, and transferred to off-site locations for the purpose of recycle, energy recovery, treatment, and/or disposal, amounted to less than 500 pounds, the Hanford Site qualified for the alternate one million pound threshold for chlorine. Accordingly, this Toxic Chemical Release Inventory includes a Form A for chlorine, and a Form R for phosphoric acid.

memorandum

DATE: DEC 17 1992
REPLY TO:
ATTN OF: EAP:EBD 93-RPA-072

SUBJECT: DELEGATION OF SIGNATURE AUTHORITY FOR THE TOXIC CHEMICAL RELEASE INVENTORY
(SARA 313 TRI REPORT)

TO: James D. Bauer, Acting Program Manager
Office of Environmental Assurance,
Permits, and Policy

I hereby delegate signature authority for the Toxic Chemical Release Inventory (SARA 313 TRI Report) to the Program Manager, Office of Environmental Assurance, Permits, and Policy.

Pursuant to 40 CFR Section 372.85, Toxic Chemical Reporting Form and Instructions, part (b)(2), signature authority may be delegated by the manager to a senior management official. This memorandum constitutes formal delegation of such authority to the Program Manager, Office of Environmental Assurance, Permits, and Policy.

John D. Wagoner
Manager

United States Environmental Protection Agency	<h1 style="margin: 0;">FORM R</h1> <p style="margin: 0;">Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act</p>	<h2 style="margin: 0;">TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM</h2>
WHERE TO SEND COMPLETED FORMS: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 1. EPCRA Reporting Center P O Box 3348 Merrifield, VA 22116-3348 ATTN: TOXIC CHEMICAL RELEASE INVENTORY </div> <div style="width: 45%;"> 2. APPROPRIATE STATE OFFICE (See instructions in Appendix F) </div> </div>		Enter "X" here if this is a revision
		For EPA use only

Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR 1997

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 3 trade secret? ☐ Yes. (Answer question 2.2; Attach substantiation forms)	2.2 Is this copy: ☐ Sanitized ☐ Unsanitized (Answer only if "YES" in 2.1)
☒ No (Do not answer 2.2; Go to Section 3)	

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: GEORGE H. SANDERS ACTING FOR ENVIRONMENTAL ASSURANCE, PERMITS AND POLICY	Signature:	Date Signed: 06/30/98
--	---	--------------------------

SECTION 4. FACILITY IDENTIFICATION

TRI Facility ID Number 99352SDPRTP0BOX					
4.1	Facility or Establishment Name U.S. DOE HANFORD SITE	Facility or Establishment Name or Mailing Address (if different from street address)			
Street 825 JADWIN AVENUE		Mailing Address POST OFFICE BOX 550			
City/County/State/Zip Code RICHLAND BENTON WA 99352-3562		City/County/State/Zip Code RICHLAND WA 99352-0550			
4.2	This report contains information for: (Important check a or b; check c if applicable) <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 45%;"> a. ☒ An entire facility </div> <div style="width: 45%;"> b. ☐ Part of a facility </div> </div>				
4.3	Technical Contact Name RANDALL N. KREKEL	Telephone Number (include area code) (509) 376 - 4264			
4.4	Public Contact Name KAREN K. RANDOLPH	Telephone Number (include area code) (509) 376 - 8230			
4.5	SIC Code (s) (4 digits)	a. 9999	b. 9511	c. NA	
4.6	Latitude	Degrees 046	Minutes 30	Seconds 00	
4.7	Dun & Bradstreet Number(s) (9 digits) a. 034456186	4.8	EPA identification Number (RCRA I.D. No.) (12 characters) a. WA7890008967	4.9	Facility NPDES Permit Number(s) (9 characters) a. WA0025917
	b. NA		b. NA	4.10	Underground Injection Well Code (UIC) I.D. Number(s) (12 digits) a. NA
			b. NA		b. NA

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	☐ NA	U.S. DEPARTMENT OF ENERGY
5.2	Parent Company's Dun & Bradstreet Number	☒ NA	

EPAUnited States
Environmental Protection Agency**TOXIC CHEMICAL RELEASE INVENTORY
FORM A****SECTION 4. FACILITY IDENTIFICATION (CONTINUED)**

4.4	Intentionally left blank						
4.5	SIC Code (4-digit)	a. 9999	b. 9511	c. NA	d.	e.	f.
4.6	Latitude and Longitude	Latitude			Longitude		
		Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
		046	30	00	119	30	00
4.7	Dun and Bradstreet Number(s) (9 digits)				a. 034456186		
					b. NA		
4.8	EPA Identification Number(s) (RCRA I.D. No.) (12 characters)				a. WA7890008967		
					b. NA		
4.9	Facility NPDES Permit Number(s) (9 characters)				a. WA0025917		
					b. WAR00000F		
4.10	Underground Injection Well Code (UIC) I.D. Number(s) (12 digits)				a. NA		
					b.		

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	
	☐ NA	U.S. DEPARTMENT OF ENERGY
5.2	Parent Company's Dun & Bradstreet Number	
	☒ NA	

PART II. CHEMICAL IDENTIFICATION**SECTION 1. TOXIC CHEMICAL IDENTITY**

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)
	007782505
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.)
	CHLORINE
1.3	Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)
	NA

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you complete Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)

EPAUnited States
Environmental Protection
Agency**TOXIC CHEMICAL RELEASE INVENTORY
FORM A****WHERE TO SEND
THIS STATEMENT:**1. EPCRA Reporting Center
P.O. Box 3348
Merrifield, VA 22116-3348
ATTN: TOXIC CHEMICAL RELEASE INVENTORY2. APPROPRIATE STATE OFFICE
(See instructions in Appendix F)Enter "X" here if
this is a revision**PART I. FACILITY IDENTIFICATION INFORMATION****SECTION 1.
REPORTING
YEAR**

1997

SECTION 2. TRADE SECRET INFORMATION

- 2.1 Are you claiming the toxic chemical identified on page 2 trade secret?
☐ Yes. (Answer question 2.2; Attach substantiation forms) ☒ No: Do not answer 2.2; continue with Section 3.
- 2.2 If yes in 2.1, is this copy: ☐ Sanitized ☐ Unsanitized

SECTION 3. CERTIFICATION (Important: Please read and sign after completing the statement.)

I hereby certify that to the best of my knowledge and belief, for the toxic chemical listed in this statement, the annual reportable amount, as defined in 40 CFR 372.27(a), did not exceed 500 pounds for this reporting year and that the chemical was manufactured, processed, or otherwise used in an amount not exceeding 1 million pounds during this reporting year.

Name and official title of owner/operator or senior management official

GEORGE H. SANDERS, ACTING FOR DIRECTOR OF

ENVIRONMENTAL ASSURANCE, PERMITS, AND POLICY

Signature

Date Signed

06/30/98

SECTION 4. FACILITY IDENTIFICATION

Facility or Establishment Name

U.S. DOE HANFORD SITE

TRI Facility ID Number

99352SDPRTPOBOX

Mailing Address (if different from street address)

POST OFFICE BOX 550

City

RICHLAND

State

WA

Zip Code

99352-0550

4.1

Street Address

825 JADWIN AVENUE

City

RICHLAND

County

BENTON

State

WA

Zip Code

99352-3562

4.2

This report contains information for:

(Important: check c if applicable; a and b have been intentionally left blank)

c. ☒**A Federal
facility**

4.3

Technical Contact

Name

RANDALL N. KREKEL

Telephone Number (include area code)

(509)376-4264

EPA FORM R
PART II. CHEMICAL-SPECIFIC INFORMATION

TRI FACILITY ID NUMBER
99352SDPRTPPOBOX
Toxic Chemical, Category or Generic Name
PHOSPHORIC ACID

SECTION 1. TOXIC CHEMICAL IDENTITY

(Important: DO NOT complete this section if you complete Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) 007664382
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) PHOSPHORIC ACID
1.3	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.) NA

SECTION 2. MIXTURE COMPONENT IDENTITY

(Important: DO NOT complete this section if you complete Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) NA
-----	--

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

(Important: Check all that apply.)

3.1	Manufacture the toxic chemical:	3.2	Process the toxic chemical:	3.3	Otherwise use the toxic chemical:
a.	☐ Produce	b.	☐ Import		
If produce or import:					
c.	☐ For on-site use/processing	a.	☐ As a reactant	a.	☐ As a chemical processing aid
d.	☐ For sale/distribution	b.	☐ As a formulation component	b.	☐ As a manufacturing aid
e.	☐ As a byproduct	c.	☐ As an article component	c.	☒ Ancillary or other use
f.	☐ As an impurity	d.	☐ Repackaging		

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	04	(Enter two-digit code from instruction package.)
-----	----	--

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM

			A. Total Release (pounds/year) (enter range from instructions or estimate.)	B. Basis of estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA ☐	0	0	
5.2	Stack or point air emissions	NA ☐	0	0	
5.3	Discharges to receiving streams or water bodies (enter one name per box)				
Stream or Water Body Name					
5.3.1	COLUMBIA RIVER		0	0	NA
5.3.2	NA				
5.3.3					
5.4.1	Underground Injection on-site to Class I Wells	NA ☒	NA		
5.4.2	Underground injection on-site to Class II-V Wells	NA ☐	0	0	

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI FACILITY ID NUMBER
	99352SDPRTPPOBOX
	Toxic Chemical, Category, or Generic Name
PHOSPHORIC ACID	

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM

		NA	A. Total Release (pounds/year) (enter range code from instructions or estimate)	B. Basis of Estimate (enter code)
5.5	Disposal to land on-site			
5.5.1A	RCRA Subtitle C landfills	☒	NA	
5.5.1B	Other landfills	☐	0	0
5.5.2	Land treatment/application farming	☒	NA	
5.5.3	Surface Impoundment	☐	0	0
5.5.4	Other disposal	☐	0	0

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS
6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)
6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1. Total Transfers (pounds/year) (enter range code or estimate)		6.1.A.2 Basis of Estimate (enter code)	
NA			
6.1.B.1	POTW Name	NA	
POTW Address			
City	State	County	Zip

6.1.B.2	POTW Name			
POTW Address				
City	State	County	Zip	

If additional pages of Part II, Section 6.1 are attached the total number of pages

 in this box and indicate which Part II, Section 6.1 page this is here (example: 1,2,3, etc.)

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2.1	OFF-SITE EPA IDENTIFICATION NUMBER (RCRA ID NO.)	WAD020257945		
Off-Site Location Name		BURLINGTON ENVIRONMENTAL INC		
Off-Site Address		1701 ALEXANDER AVENUE		
City	TACOMA	State	WA	County
			PIERCE	Zip
				98421
Is location under control of reporting facility or parent company?				☐ Yes ☒ No

EPA FORM R

TRI FACILITY ID NUMBER

99352SDPRTPOBOX

PART II CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

Toxic Chemical, Category or Generic Name

PHOSPHORIC ACID

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (continued)

A. Total Transfers (pound/year) (enter range code or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 47	1. O	1. M69
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

6.2 2 OFF-SITE EPA IDENTIFICATION NUMBER (RCRA ID NO.)

ORD089452353

Off-Site location Name

CHEMICAL WASTE MANAGEMENT OF THE NORTHWEST INC

Off-Site Address

17629 CEDAR SPRINGS LANE

City

ARLINGTON

State

OR

County

GILLIAM

Zip

97812

Is location under control of reporting facility or parent company?

Yes

X

No

A. Total Transfers (pound/year) (enter range code or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 7	1. O	1. M40
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence (enter 3-character code(s))	c. Range of Influent Concentration	d. Waste Treatment Efficiency Estimate	e. Based on Operating Data
7A.1a	7A.1b	7A.1c	7A.1d	7A.1e
	1 P09			
	2 C11			
W	3 NA	1	100 %	Yes No X
	4			
	5			
	6			
7A.2a	7A.2b	7A.2c	7A.2d	7A.2e
	1 C01			
	2 C11			
W	3 NA	1	100 %	Yes No X
	4			
	5			
	6			
7A.3a	7A.3b	7A.3c	7A.3d	7A.3e
	1			
	2			
	3			
	4			
	5			
	6			
7A.4a	7A.4b	7A.4c	7A.4d	7A.4e
	1			
	2			
	3			
	4			
	5			
	6			
7A.5a	7A.5b	7A.5c	7A.5d	7A.5e
	1			
	2			
	3			
	4			
	5			
	6			

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this

box 1 and indicate which page(of Part II, Section 6.2/7A) is provided here: 1 (example: 1,2,3, etc)

EPA FORM R

PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER

99352SDPRTPOBOX

Toxic Chemical, Category or Generic Name

PHOSPHORIC ACID

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

☒

Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1. NA 2. 3. 4.

SECTION 7C. ON-SITE RECYCLING PROCESSES

☒

Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1. NA 2. 3. 4. 5. 6. 7. 8. 9. 10.

All quantity estimates can be reported using up to two significant figures.

Column A
Prior Year

(pounds/year)

Column B
Current Reporting Year

(pounds/year)

Column C
Following Year

(pounds/year)

Column D
Second Following Year

(pounds/year)

8.1	Quantity released *	0	0	0	0
8.2	Quantity used for energy recovery on-site	NA	NA	NA	NA
8.3	Quantity used for energy recovery off-site	NA	NA	NA	NA
8.4	Quantity recycled on-site	NA	NA	NA	NA
8.5	Quantity recycled off-site	0	0	0	0
8.6	Quantity treated on-site	600	15000	2000	5000
8.7	Quantity treated off-site	5700	54	50	50
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)			0	
8.9	Production ratio or activity index			2.0	

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

Source Reduction Activities
[enter code(s)]

Methods to Identify Activity (enter codes)

8.10.1	NA	a.	b.	c.
8.10.2		a.	b.	c.
8.10.3		a.	b.	c.
8.10.4		a.	b.	c.

8.11 Is additional information on source reduction, recycling, or pollution control activities included with this report? (Check one box)

YES

NO

☐☒

* Report releases pursuant to EPCRA Section 329(b) including, any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment. ** Do not include any quantity treated on-site or off-site.

1997 HANFORD SITE TOXIC CHEMICAL RELEASE INVENTORY
DOE-RL-98-39

DISTRIBUTION

Number
of Copies

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3

U.S. Environmental Protection Agency

EPCRA Reporting Center
Toxic Chemical Release Inventory
Post Office Box 3348
Merrifield, Virginia 22116-3348

Pesticides and Toxic Substances Branch
USEPA Region 10 (WCM-128)
1200 Sixth Avenue
Seattle, Washington 98101

Mr. Douglas R. Sherwood, Hanford Project Manager
712 Swift Boulevard, Suite 5 MS B5-01
Richland, Washington 99352

2

State of Washington Department of Ecology

Ms. Idell Hanson
Community Right-To-Know Unit
Post Office Box 47659
Olympia, Washington 98504-7585

Mr. Steven V. Moore
Hanford Project Office
1315 West Fourth Avenue
Kennewick, Washington 99336-6018

1

Confederated Tribes of the Umatilla Indian Reservation

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 Ms. Leanora Seetalsee
 Post Office Box 878
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