SHIP PRODUCTION COMMITTEE FACILITIES AND ENVIRONMENTAL EFFECTS SURFACE PREPARATION AND COATINGS DESIGN/PRODUCTION INTEGRATION HUMAN RESOURCE INNOVATION MARINE INDUSTRY STANDARDS WELDING INDUSTRIAL ENGINEERING EDUCATION AND TRAINING October 1999 NSRP 0526 N8-96-3

THE NATIONAL SHIPBUILDING RESEARCH PROGRAM

Application of Industrial Engineering Techniques to Reduce Workers' Compensation and Environmental Costs - Deliverable H

U.S. DEPARTMENT OF THE NAVY CARDEROCK DIVISION, NAVAL SURFACE WARFARE CENTER

in cooperation with National Steel and Shipbuilding Company San Diego, California

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DELIVERABLE H

IMPLEMENTATION OF THE WIXEL EXECU-TRAX WASTE MANAGEMENT SOFTWARE AT NASSCO

NATIONAL SHIPBUILDING RESEARCH PROGRAM PANEL SP-8 PROJECT 8-96-3

APPLICATION OF INDUSTRIAL ENGINEERING TECHNIQUES TO REDUCE WORKERS' COMPENSATION AND ENVIRONMENTAL COSTS

DELIVERABLE H

IMPLEMENTATION OF THE WIXEL EXECU-TRAX WASTE MANAGEMENT SOFTWARE AT NASSCO

SUBMITTED BY:

THOMAS FAWCETT PROJECT MANAGER FRED HOGAN PROJECT ENGINEER

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- A. NASSCO Department List
- B. NASSCO On-Site Waste Stream
- C. Waste Stream List
- D. Transporters
- E. Active TSDFs
- F. Active NASSCO Profiles
- G. Hazardous Waste Disposal Costs
- H. On-Site Container List
- I. Hazardous Waste Manifest

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Application of Industrial Engineering Techniques to Reduce Worker Compensation and Environmental Costs N8-96-3

Implementation of the Wixel ExecuTrax Waste Management Software

1.0 Introduction

As a sub-task of the NSRP project, *Application of Industrial Engineering Techniques to reduce Workers Compensation and Environmental Costs (8-96-3)*, the NASSCO Environmental Engineering Department performed an investigation of various waste management software. The investigation involved searching for efficient methods of tracking costs and volume of hazardous and non-hazardous wastes using industrial engineering techniques. The hazardous material/waste management software ExecuTrax from Wixel, Inc. was chosen for its capabilities for an optimum management of information.

This report describes the logistics of implementing the software at the NASSCO shipyard.

2.0 Industrial Engineering & Environmental Management

The promulgation of more stringent environmental laws and regulations over the past two decades has prompted the industrial community, including the shipbuilding and repair industry, to expand its efforts to comply with the laws and regulations and to proactively manage hazardous wastes. The costs to control and dispose of generated hazardous wastes has risen steadily as a result of those enacted laws and regulations.

Industrial engineering human factors techniques have been applied to various shipyard production processes for many years. However, the application of industrial engineering techniques to the shipyard environmental management for a better cost control and increased productivity has been limited. In this sub-task, a waste management software has been chosen and is in the process of being instituted to the NASSCO shipyard to demonstrate the benefits of implementing industrial engineering techniques for better environmental management practices.

3.0 Hazardous Material/Waste Tracking at NASSCO

There had been no efficient methods of characterizing and tracking the cost and volume of hazardous and non-hazardous wastes that were generated from production operations at the NASSCO shipyard. The tracking system that had been used at NASSCO was archaic, slow, and labor intensive.

It was recognized that there would be significant benefits to NASSCO should an automated process be implemented for effective tracking, segregation, and assignment of

disposal costs to the producing departments. Such a process would also allow NASSCO to identify and track waste streams that can be evaluated for the waste minimization efforts.

4.0 Hazardous Material/Waste Management Software Evaluation

The NASSCO Environmental Engineering Department evaluated over fifteen waste management software that were available on the market.

NASSCO Environmental Engineering set the following specific criteria for the waste management software. The software must:

- Allow the generator, the shipyard, to track waste activities from its generation to disposal;
- Allow easy and efficient tracking of waste containers throughout the waste generating activities;
- Has the ability to allocate waste volume and disposal costs to each generating department or area;
- Has the ability to integrate all related data into one program;
- Has the ability to track and maintain archive and current data;
- Has a capability to generate reports for the regulatory agencies;
- Be inexpensive to be recommended to the US shipyards;
- Be user friendly and easy to use for those who are less computer literate; and
- Run on a PC-based computer system preferably with network link capabilities;

Most software offered variety of capabilities that were above and beyond what NASSCO Environmental Engineering was seeking. Some offered linking the waste generating activities to other activities including material purchase, production scheduling, and accounting. The cost of some software was as much as \$30,000.

5.0 Wixel ExecuTrax Waste Management Software & the Benefits5.0 Wixel ExecuTrax Waste Management The NASSCO Environmental Engineering Department chose Wixel ExecuTrax Waste Management Software to be implemented at the NASSCO shipyard.

ExecuTrax is a PC-based "user-friendly" software with various capabilities for an effective waste management. ExecuTrax allows the hazardous waste generator a precise "Cradle-to-Grave" waste management tracking. It also has a built-in warning system that provides prevention of violations and waste profile expirations, thus, allowing the generator to avoid fines and penalties. It contains pre-populated databases that integrate all related data into one program. Commonly used information such as the generator information, the transporter information, and the treatment, storage, and disposal facility information need only be entered once, and the software handles cross-referencing of pertinent information to all necessary areas of the system. This promotes data uniformity and significantly reduces the possibility of errors that can be caused by multiple users. ExecuTrax produces informative and accurate reports for management analysis tools and

for submitting to the regulatory agencies. It has the network capabilities that provide instant access to all users involved. It also has the capabilities to adapt and customize the program to the particular requirements of the user and user's systems.

ExecuTrax was the most cost efficient system among the software NASSCO Environmental Engineering evaluated. NASSCO purchased the multi-user license for ExecuTrax for \$5,100. NASSCO also purchased the technical support contract for \$1,100 annually. The technical support contract entails receiving technical support services and any future software upgrades.

All the capabilities ExecuTrax provide will allow the NASSCO Environmental Engineering Department an efficient collection and management of information related to hazardous and non-hazardous wastes. Furthermore, the data collected will enable the Environmental Engineering Department to identify areas within the NASSCO shipyard that generate large quantities of wastes and to apply industrial engineering techniques to those areas for process improvements for waste reduction and disposal cost reduction.

In summary the major benefits are:

- Reduction in the biennial hazardous waste report preparation time.
 a. 80 hours to 8 hours (approx.)
- 2. Ease of hazardous waste generator fee and tax calculation.
- 3. Increase efficiency of the waste management information tracking.
- 4. Ability to integrate into an environmental management system.

6.0 Implementation of Wixel ExecuTrax at NASSCO

6.1 ExecuTrax Software User Training

The NASSCO Environmental Engineering Department staff and the NASSCO HAZMAT personnel received a three-day training on how to use ExecuTrax.

6.2 Data Input

The software has been purchased and installed in the NASSCO computer system network. As with any data management software, ExecuTrax requires initial loading of information pertaining to the NASSCO operations. The following information has been entered into the waste module of ExecuTrax to customize to the NASSCO operations:

6.3 Generator Information

The information pertinent to waste management practices at NASSCO has been entered. The EPA identification number, the state identification number, NASSCO address, point of contact, and telephone numbers have been entered.

6.4 *Waste Generating Departments*

To aid in the waste minimization efforts, the contents of each wastes container are assigned to their generating department/area. A total of 32 generating

departments of NASSCO have been identified and entered into the ExecuTrax system. See Attachment A. NASSCO Department List.

6.5 On-Site Waste Streams

A total of 44 different hazardous waste streams are generated from the NASSCO operations. They range from oily waste water to flammable aerosol cans. Those 44 waste streams have been loaded to the ExecuTrax waste module. A list of NASSCO On-Site Waste Stream in included in this report as Attachment B. The Attachment C, Waste Stream List describes the waste streams by the proper DOT shipping name and EPA waste codes. The information as shown in the Attachments B and C will allow the Environmental Engineering Department to generate accurate waste reports to be submitted to regulatory agencies such as EPA and Cal EPA.

6.6 Transporter Information

NASSCO currently uses four transporters for shipping hazardous wastes to various treatment, storage and disposal facilities (TSDF's). The Attachment D lists the transporters.

6.7 TSDF Information

NASSCO currently uses TSDF's for disposal of its hazardous wastes. The Attachment E lists the active TSDF's.

6.8 Active Profiles

There are 44 active NASSCO hazardous waste profiles that have been set up with various TSDF's for proper hazardous waste disposal. The Attachment F lists the active profiles.

6.9 Hazardous Waste Disposal Costs

One of ExecuTrax's capabilities is allowing the generator to track hazardous waste disposal costs. The disposal cost for each waste stream has been entered into ExecuTrax as shown in the Attachment G.

6.10 On-Site Container List

The Attachment H, On-Site Container List, illustrates some of the waste containers that were on site at the NASSCO shipyard that were ready for transport to an off-site TSDF. The accurate container tracking is essential to processing the wastes on time to avoid any enforcement actions by the regulatory agencies.

6.11 Producing a Waste Shipment

ExecuTrax allows the generator three different ways to produce shipments. The waste can be produced by the containers, by waste streams, or by shipping names. Each has its own advantages. Producing the shipment by the containers allows the

generator a greater control over keeping track of container inventory. Producing the shipment by the shipping name is recommended only for printing waste manifests.

6.12 Generating Hazardous Waste Manifest

ExecuTrax compiles the information that has been entered and generates a hazardous waste manifest. The generator information, transporter information, TSDF information, waste information with the proper US DOT shipping description, any special handling information will be printed on the manifest. The Attachment I is a copy of the ExecuTrax generated Uniform Hazardous Waste Manifest with the pertinent information that would be on a real manifest. This manifest was generated from the NASSCO waste information that was entered into the software.

7.0 Conclusion and Recommendation

With the simplicity and ease of use of Wixel ExecuTrax, NASSCO foresees a great opportunity in streamlining its waste information management. The data collected will enable the Environmental Engineering Department to identify areas within the NASSCO shipyard that generate large quantities of wastes for waste reduction efforts. Furthermore, NASSCO will be able to apply various industrial engineering techniques to those areas for process improvements and cost reduction.

The findings from this sub-task of the NSRP project N8-96-3 indicate that there is a great potential for applying industrial engineering techniques for better and efficient environmental management. Using a tool such as the ExecuTrax waste management software will be beneficial to the US shipyard industry for the better environmental management, process improvements, and cost reduction.

Attachments

1. Creating & Selecting a Generator Database



Generator List Box and Document Window

2. Entering Department Information



Department Information List Box & Document Window

epartment List		NAS	SCO		Printed:	6/25/98
Name:	Flame Spray				Code: 015	
Address:	28th & Harbor Dr.					
	San Diego	CA 92	113			
Description		Phone	Extension	Contact		
Flame Spray		(619) 544-8549		Roberta Schwab		
Name:	Floating Drydock				Code: 026	
	28th & Harbor Dr.					
Address.	San Diego	CA 92	113			
	Call Diego					
Description		Phone	Extension	Contact		
Floating Drydock		(619) 544-8775	1211000000000000	Akbar Gaya		
Floating Drydock		(619) 544-3450		Joe Pritchard		
Floating Drydock		(619) 544-3601		Lee Downing		
Ploating Drydock	8	(619) 544-5001		Lee Downing		
Name:	GNP Area				Code: 007	
Address:	28th & Harbor Dr.					
	San Diego	CA 92	113			
Description		Phone	Extension	Contact		
GNIP Area		(619) 544-8549		Roberta Schwab		
Name:	Grit Blast Area, Bidg.	70			Code: 017	
	28th & Harbor Dr.	0.50				
110010001	San Diego	CA 92	113			
Description		Phone	Extension	Contact		
Grit Blast Area		(619) 544-7578	Manager and a second	Art Allen		
Ght blast Alea		(015) 044 / 070		Partituda		
Name:	Hopeman Brothers				Code: 022	
Address:	28th & Harbor Dr.	3200-220	0.922			
	San Diego	CA 92	113			
Description		Phone	Extension	Contact		
Hopernan Bros.		(619) 544-7729		Pat Murray		
Name:	Machine Shop, Bldg.	8			Code: 027	
	28th & Harbor Dr.	S.				
Add(056)	San Diego	CA 92	113			
		Phone	Extension	Contact		
Description			Interesting of the	John Walden		
Description Machine Shop		(619) 544-8421				

CADDODI 158932 EPA Hazardous Waste Report - Form GM Worksheel Retween 10198 and 12/31/38 Section I: A. Waste Description: Ancul Fre Protecton Waste Profile: AFFF Code: 0001 EPA Hazardous Class: Nore Additional Desc: - DOT Shipping Description Non-RCRA Hazardous Waste Liquid, Fire Protection Compound Hazardous Material Regulated B. EPA Hazardous Waste Code(s): (Nore Specified) C. State Waste Code(s): 343 D. SIC Code: 3731 E. Origin Code: F. Source Code: G. Point of Measurement: H. Form Code: L. RCRA Radioactive: 2 Section II: A. Quantity Produced in Previous Period: 0.00 (1:01:1997 - 12:31:1997) B. Quantity Generated in Current Period: 0.00 C. UOM: 1 Density: 1.000 (Specific Gravity) Section III:	
A. Waste Description: Ansul Fire Protection Waste Profile: AFFF Code: 0001 EPA Hazard Class: None Additional Desc: - DOT Shipping Description Non-RCRA Hazardous Waste Liquid, Fire Protection Compound Hazardous Material Regulated B. EPA Hazardous Waste Code(s): (None Specified) C. State Waste Code(s): 343 D. SIC Code: 3731 E. Origin Code: F. Source Code: G. Point of Measurement: H. Form Code: I. RCRA Radioactive: 2 Section II: A. Quantity Produced in Previous Period: 0.00 (1:01:1997 - 12:31:1997) B. Quantity Ordererated in Current Period: 0.00 C. UOM: 1 Density: 1.000 (Specific Gravity) Section III:	915.95
Waste Profile: AFFF Code: 0001 EPA Hazard Class: None Additional Desc:	
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C. UOM: 1 Density: 1.000 (Specific Gravity) Section III:	
*** Waste was not shipped off-site ***	
EssenTax Waste Moturel Page	r 1

NASSCO

EPA Hazardous Waste Rep Between 1/01/98 and 12	ort - Form GM Workshee /31/98	t		Printed:	9/18/5
Section I:					
A. Waste Description:	Contaminated Soil from S	torm Darin Clean Out			
Waste Profile: EPA Hazard Class: Additional Desc:	Contaminated Soil Listed	Co	de: 0002		
	hipping Description — lazardous Waste, Solid, I	N.O.S., NA3077, RQ1, I	PGIII		
L	Hazardous Mater	ial 🖂 Regulat	ed		
B. EPA Hazardous Waste	Code(s):				
D005,D007,D008 C. State Waste Code(s): D. SIC Code: 3731 E. O H. Form Code: B302 Section II: A. Quantity Produc B. Quantity General	171 rigin Code: 1 F. Sourc I. RCRA Radioactive: 3 ed in Previous Period: ted in Current Period:	2 0.00 1,200.00	Point of Measure (1/01/1997 - 12/3		
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ExecuTrax (Waste Module)

te Container List	NA6666			Pri	nted: 8/26/98
Container/Alt Container	Date Location	Row	Col	<u>Layer</u>	# Days
DM-98-00001	8/24/98				2
	Waste Stream: Petroleum	Naphtha			
DM-98-00002	8/24/98				2
	Waste Stream: Petroleum	Naphtha			
DM-98-00003	8/24/98				2
	Waste Stream: Petroleum	Naphtha			
DM-98-00004	8/24/98				2
	Waste Stream: Petroleum	Naphtha			
DM-98-00005	8/24/98				2
	Waste Stream: Petroleum	Naphtha			
DM-98-00006	8/24/98				2
	Waste Stream: Petroleum	Naphtha			
DM-98-00007	8/24/98				2
	Waste Stream: Petroleum	Naphtha			
DM-98-00008	8/24/98				2
	Waste Stream: Petroleum	Naphtha			

NASSCO

ExecuTrax (Waste Module)

8. Entering Shipment Information

	9		andez Disposal Facility Laidlaw Environ Laidlaw Environ Facility Environ	nenital Services	
Inited as Locade	Differed Biffered General	A Record Comments Transporter(s) Merstent Identification Slave Manifest Nur Genesator Manifest Date Project Number	nbor:		Shoment Pictup

Shipment Information List Box and Document Window

8.1 Entering Shipment Information by Container

	and Information	
	Manifest Number Ey Date	
Gerx Billing	etal Transporter[s] Special*	Fanding Destination Pickup Defoed Centents of Shipment
Pag		ntrol Type Total Bty Fortainer Number
	DM-98-00003 51 Days Left DM-98-00004 51 Days Left DM-98-00005 51 Days Left DM-98-00005 51 Days Left DM-98-00007 51 Days Left DM-98-00007 51 Days Left Lacate 41 Lacate 41 Lacate 51 Content Container Information	Imme Stracking Desception Continues Type Total Bit A react Scrathenible Linux 10 11 10 A react Scrathenible Linux 11 11 11 A react Scrathenible Linux 11 11 <t< th=""></t<>
	R Select Using Special Extense	w Manifest

Modify Contents of a Shipment Document Window

4. Entering Transporter Information

	porter l'alement				
ByNam	e By Code				
Ledt 3 2 1	Name Action Deaning Laidlaw Environ MP Environment Sciences			Address	
	👽 Changerg 🕖				
	State (Dis) General	Phone Num Address	beits] UserDefined	Inspection(s)	
	Code: Name:	Safety-Klee	en Corp.		
Lical Locate	EPA ID. SIC Code:	ILD 964906	202		1
					sip
			V OK	Canoel 2	

Transporter Information List Box & Document Window

ransporter List	NAS			Prin	ted:	8/19/9
Name: Address:	Action Cleaning			Code:	3	
County:						
	EPA ID: CAD980812978	SIC Co	de:			
Description Action Cleaning	Phone (619) 233-1881	Extension	<u>Contact</u>			
Name: Address:	Laidlaw Environmental Services			Code:	2	
County:						
	EPA ID: CAD000083121	SIC Co	de:			
Description	Phone (619) 344-9400	Extension	<u>Contact</u>			
Name: Address:	MP Environmental			Code:	1	
County:						
	EPA ID: CAT000624247	SIC Co	de:			
Description	Phone (800) 393-1151	Extension	Contact			
Name: Address:	Safety-Kleen Corp.			Code:	4	
County:						
	EPA ID: ILD984908202	SIC Co	de:			
Description Safety-Kleen	Phone (800) 669-5740	Extension	Contact			

ExecuTrax (Waste Module)

Attachment E. NASSCO TSDF List

	WASTE MANIFEST	1. Generator's US EPA ID No. CAD009158932	Manife Docum 0930	ment No.	2. Pag of	The second second second		he shaded by Federal		
3. Gene	rator's Name and Mailing Address Harbor Drive	NASSCO	a de la constante de		000000000000000000000000000000000000000	Manifest Doc 1403	ument N	umber		
San Di	iego, CA 92113 rator's Phone (619) 544-7736					Generator's 1 +Q-36-00521				
5. Trans	sporter 1 Company Name -Kleen Corp.	6. US EP/ //_D984908	A ID Number 1202		0.0000000000000000000000000000000000000	Transporter's		0669-5740		
	sporter 2 Company Name	8. US EPA	A ID Number		E State	Transporter's Phor	; ID		-	
Safety- 2120 S	anated Facility Name and Site Addres -Rieen Corp. 5, Yale St. Ana, CA 92704	s 10. US EP.	A ID Number		G. State	Facility's ID ty's Phone (241-7047	RC			
	DOT Description (Including Proper S			12. Cont	0000000000	13,	14. Unit	1		
НИ				No,	Туре	Total Quantity	WEVG	Wast	e No)
а.	Waste Combustible Liquid, N.O.	S., (Petroleum Naphtha), NA1993		1	DM	15	G	D039, DK D018, DK		
b.										
o.										
-				_			-			
d.										
J. Addt	tional Deecription for Matanals Listed	Above			K. Hani	iling Codes fr	or Washe	s Listed At	iove	
	ional Description for Materials Listed				K. Henr	lling Codes fr	r Washe	s Listed At	ove	
15. Spe 16. GEI pro sec file ecc full the		inal Information isolare that the contents of this consigner ked, marked, and late in all conal governmest regulators. I have a program in place to reduce the cted the practicable mailhed of treatment ment; OR, if and a small quartity gene wailable to me and i can afford.	respects in prope volume and toxici I storage or disp	er condition ity of waste osal curren	described for transp generate	above by sort by highway d to the degree	I haze del	termined to	be t and cele	d
15. Spe 16. czEl pro sco frie eco ful the Prin	ecial Handling Instructions and Addition NERATORS CERTIFICATION: I hereby of per shipping name and are classified, par anding to applicable international and nat ma large quantity generator, I certify that snomically practicable and that I have sets are trucked to human health and the environ- best waste management method that is a nited / Typed Name	inal Information isolare that the contents of this consigure ked, marked, and labeled, and are in all conal government regulations. I have a program in place for roduce the cted the practicable mathod of traatment iment; OR, if I am a small quartity gene wailable to me and I can afford. Sign	respects in prope volume and tocici I, storage, or disp inator, i have mad	er condition ity of waste osal curren	described for transp generate	above by sort by highway d to the degree	I haze del	lermined to is the present neration and	be t and cele	d
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5. Entering Waste Profile Definition Information

en wende	Profile Information	XCL.
By Waste	Profile Code By Waster Prof	e Description
	anie Code Waste Prolite Deso	
20094 23455 📷	Sludge -Crosby & 0	
24909 24911	Changing a Recurd	
24913 24914	and the second se	User Defined EPA Hazardous Waste Report UIS Information
24915	General Classificati	ter I Enfocational I Reservous care I Log mun
2491/2	Protie Code:	
24918 24919	Profile Description	Paint Solids
24920 24921	Shipping Information	Registed Razadous Material
Inderla	RQ	
Locale.	Shipping Name	"R0", Waste Flammable Solids, N.O.S. (Paint Solids with Acetone, Toluene), 4.1, UN 1325, PG II
En Co		and the second s
C.C.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S.S		E Lookup Shipping Name
	Additional Description:	"Flammable Solids" label required
0000	Spec. Handing Inst :	
	Handing Codes:	
		R EPA Codelsi V DK Cancel & Help
	CONTRACTOR OF THE OWNER	

Waste Profile Information List Box & Document Window

tream List		1010	SCO		Printed:	8/03/98
		- General In	formation			
Description:	Batteries			Code: 309104		
R	D :	Regulated	🗌 Hazard	ious Material		
DOT	Shipping	Description:				
Non-	RCRA Was	ste Alkaline Batter	ies			
UN/NA Number:	NONE	Packing Gro	oup:		1 8009	
	None					
Additional Descript	ion:					
		:				
22				A.)		
	Description: R(DO1 Non- UN/NA Number: Hazard Class: EPA Hazard Class: Additional Descript	Description: Batteries RQ: DOT Shipping Non-RCRA Was UN/NA Number: NONE Hazard Class: EPA Hazard Class: None Additional Description:	General In Description: Batteries RQ: CROWING Regulated DOT Shipping Description: Non-RCRA Waste Alkaline Batter UN/NA Number: NONE Packing Gro Hazard Class: EPA Hazard Class: None	General Information Description: Batteries RQ:	General Information Description: Batteries Code: 309104 RQ: Regulated Hazardous Material DOT Shipping Description: Non-RCRA Waste Alkaline Batteries UNVNA Number: NONE Packing Group: Origin Code: Hazard Class: Form Code: EPA Hazard Class: None Gen Source Cod Additional Description:	General Information Description: Batteries Code: 309104 RQ: Regulated Hazardous Material DOT Shipping Description: Non-RCRA Waste Alkaline Batteries UNVNA Number: NONE Packing Group: Origin Code: 1 Hazard Class: Form Code: B009 EPA Hazard Class: None Gen Source Code: A99 Additional Description:

NASSCO

ste Stream List			Pr	inted: 8/03/
Na.				
		General Information		
Description:	Paint Solids	1	Code: 24917	
R	a :	🛛 Regulated 🗌 Hazardi	ous Material	
DO	Shipping D	escription:		
		rmable Solids, N.O.S. (Paint Sol), 4.1, UN 1325, PG II	ids with	
UN/NA Number:	1325	Packing Group: II	Origin Code:	1
Hazard Class: EPA Hazard Class:	4.1 Ignitable		Form Code: Gen Source Code:	B604 A21
Additional Descript Special Handling In		"Flammable Solids" label requir	ed	
5 <u></u>		- EPA Waste Code(s) -		
Code	Weight	LB Sub-Category		
D001	0.0			
D035	0.0			

ExecuTrax (Waste Module)

		NASSCO			
aste Stream List			Pri	nted:	8/03/98
		General Information	n		
Description	n: Petroleum		Code: Safety-Kin		
			zardous Material		
DC	OT Shipping D	escription:			
Wa NA	ste Combustit 1993	ile Liquid, N.O.S., (Petroleu	m Naphtha),		
UN/NA Number: Hazard Class:	1993	Packing Group:	Origin Code: Form Code:	1 B202	
EPA Hazard Class	: Listed		Gen Source Code:	A19	
Additional Descrip	tion:				
Special Handling I	nstructions:				
21-11-1		- EPA Waste Code(s)		
Code	Weight	LB Sub-Category			
D039	0.0				

ExecuTrax (Waste Module)

NASSCO

Printed: 8/03/98

Description	: Zinc Primer			Code: 25544	
R	a :	Regulated	Hazardous	s Material	
DO	T Shipping De	scription:			
Nor	-RCRA, Hazard	tous Waste Solid, (Z	nc Primer)		
JN/NA Number: lazard Class:	NONE	Packing Group:		Origin Code: Form Code:	1 B409
UN/NA Number: Hazard Class:	NONE	Packing Group:		Origin Code: Form Code:	1 B409
EPA Hazard Class:	None			Gen Source Code:	A99
	1000				
Additional Descript	tion:				

ExecuTrax (Waste Module)

Waste Stream List

11. Cost Allocation



Cost Allocation Information By Dept. Document Window

SD Pricing		11 I - 3	NASSCO		Printed:	8/19/98
		242				
		Waste Stream:	Oil Filter Cake			
	Cost Code			Cost	Cost Type	
	30GD	30-gal drum		242.000		
	55GD	55-gal drum		285.000		
	XPORT	Transportatio	n cost	450.000		
		Waste Stream:	Oily Waste Water			
	<u>Cost Code</u>	Description		Cost	Cost Type	
	1	Waste Stream:	Paint Booth Filters			
	Cost Code	Description		Cost	Cost Type	
	30GD	30-gal drum		166.000		
	55GD	55-gal drum		195.000		
	XPORT	Transportatio	n cost	450.000		
		Waste Stream:	Paint Solids			
	Cost Code	Description		Cost	Cost Type	
	30GD	30-gal drum		238.000		
	55GD	55-gal drum		280.000		
	XPORT	Transportatio	n cost	450.000		
	-	Waste Stream:	Photographic & Blueprint			
	Cost Code	Description		Cost	Cost Type	
	30GD	30-gal drum		160.000	Alexandra and a second	
	55GD	55-gal drum		188.000		
	XPORT	Transportatio	n cost	450.000		





"Containers" Screens



Attachment I Uniform Hazardous Waste Manifest

UNIFORM HAZARDOUS 1. Generator's WASTE MANIFEST CAD009158				Manifest Document No 97100		Page 1 Information in the sha of T is not required by Fe				
	rator's Name and Mailing Address Harbor Drive	NASSCO			5 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 /	Manifest Doo 11948	sument N	lumber		
	iego, CA 92113				B. State	Generator's	D			
4. Gene	erator's Phone (619) 544-7736				C2 (2000000)	HQ-36-00521				
	sporter 1 Company Name		6 US EPA ID I		100010000000000000000000000000000000000	Transporter's				
	v Environmental Services		CAD000083121	2.0021	1110101000000000	sporters Prior Transporter's	10000000000000	9)344-9400		
7. Tran	sporter 2 Company Name		8. US EPA ID	Number	part and the little state	sporter's Phor				100
o Davis	gnated Facility Name and Site Address		10. US EPA ID	Number		Facility's ID	10			l
	v Environmental Services	•	17.00 State 19.00							
	Yba Street					ity's Phone				
Los A	ngeles, C.A. 90058		CAD050806850			585-5063				
11. US	DOT Description (Including Proper Si	hipping Name, Ha	zard Class, and IO Nun	ober) 12. Co	ntainers	13. Total	14 Unit		L	
HA	()			No:	Туре	Quantity	Wt/Vol	Waa	te No	62
 Waste Flammable Solids, Organic, N.O.S. (Rags Contaminated with Paint, Petroleum Distillates), 4,1, UNV325, PG II 				28	DM	4,200	P	0001		
ь.	Aerosols, flammable, (EACH NO	TEXCEEDING 1	L CAPACITY), UN195	0 11	DM	1,375	P	D001		
c. Non-RCRA Hezardous Waste, Saïid (Ol Contaminated Absorbent)				5	DM	750	Р	none		
d.	Non-RCRA, Hazardous Waste Solid, Wax/Grease					(95). 2004000		nane		
					DM	2,400	P			
	A: SDNAS-24925: Contemplated Rag. S: SDNAS-24911:Stray Cans.	s "Flammable Sol	d" label /quired							
LINE (LINE (LINE (3. SDNAS-24911.Spray Cans C. SDNAS-24915: Of Absorbent D. SDNAS-24927: Wax/Grease		a label iquired							
LINE C LINE C LINE C	 SDNAS-24917:Spray Cans SDNAS-24915 OF Absorbent SDNAS-24927: Wax/Greese acial Handling Instructions and Addition Additional Handling Instructions and Additional Handling Instructional Handling Instruc	nal Information	the of the consistent a	e fully and accurate	v described	above by				
LINE L LINE C LINE C LINE C 15. Spi 16. GE pro acc fid. the	3: SDNAS-24917: Spray Cans. C: SDNAS-24915: OI Absorbent D: SDNAS-24927: Wax/Grease acial Handling Instructions and Additio NERATORS CERTIFICATION: I hereby d per shipping name and are classified, pac ording to applicable international and nation ma large quantity generator, I certify that inomically practicable and that I have sele to theat to tuman health and the enairon best waste management method that is a	nal information ediare that the conte ked, marked, and tal coal government reg have a program in cted the practicable ment: OR, III am a	nts of this consignment at beled, and are in all respe- ulations. Jace to reduce the volum method of treatment, store small quarity generator, can afford.	e and toxicity of was	te generate entiv availat	d to the degree	i have det	E 108 D16542	d onle	
LINE L LINE C LINE C LINE I 15. Spi 16. GE pro acc fid. the	SDNAS-24917 Spray Cans SDNAS-24915 OF Absorbent SDNAS-24927 Wax/Grease scial Handling Instructions and Additio NERATORS CERTIFICATION: I hereby d per shipping name and are classified, pac ording to applicable international and nation ma large quantity generator, I certify that inomically practicable and that I have sele to thead to kuman health and the ensition.	nal information ediare that the conte ked, marked, and tal coal government reg have a program in cted the practicable ment: OR, III am a	nts of this consignment at beled, and are in all respe- ulations. Bace to reduce the volum method of treatment, stors small quantify generator.	e and toxicity of was	te generate entiv availat	d to the degree	i have det	s the prise teration are	d onle	
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Livie L Livie L Livie L Livie I Livie I IS Spe Pro 18, Trr Pri 19, Dir	SDNAS-24917 Spray Cans SDNAS-24915 OX Absorbent SDNAS-24915 OX Absorbent SDNAS-24927 Wax/Grease acial Handling Instructions and Addition NERATORS CERTIFICATION: I hereby 4 per shipping name and are classified, pac ording to applicable international and nation a large quantity generator, I certify that immically practicable and that I have sale are theat to human health and the entrino bed waste management method that is a nited (Typed Name ansporter 1 Acknowledgement of Reco nited / Typed Name ansporter 2 Acknowledgement of Reco nited / Typed Name	nal Information ediare that the conte- ked, marked, and tai anal government rug thave a program in the the practicable have a program in the the practicable have a program in waitable to me and 1 high of Materials	nts of this consignment at beled, and are in all respe- ulations. Jace to reduce the volum method of treatment, store sensel quantity generator, can afford. Signature Signature	e and toxicity of was ige, or disposal cum i have made a good	te generate entry availab fakh effort t	d to the degree le to me which o minimize my	i have det minimizes waste ger	Month (Day	Y