OPERATION PLAN
FOR THE STORAGE FACILITY (2233) AND STORAGE MAGAZINE (0312)

Volume 2

United Technologies Corporation
Pratt & Whitney Rocketdyne
600 Metcalf Road
San Jose, California 95138-9601

EPA I.D. No. CAD 001705235

May 2006

APPENDIX J

LIST OF BACKFLOW DEVICES FOR THE UTC SITE

BACKFLOW DEVICES

Station	Location	Make/Size	Model	Serial #	Rating
0010	MECH ROOM	WATTS 1”	709DC	161739	175@140
0015	TP/BLR	WATTS ¾”	709DC	168459	175@140
0015	MECH ROOM	WATTS 2”	909RP	116824	175@140
0020	OUTSIDE	WATTS ¾”	009M3QT	62089	175@140
0020	MECH ROOM	WATTS ¾”	709DC	123813	175@140
0023	ROOM 219	FEBCO ¾”	825YRP	RO922	175@140 (NS)
0023	TRAILER	WATTS ¾”	007M3QT	132373	175@140 (NS)
0023	REAR DOOR	FEBCO ¾”	805YDC	H1828	175@140 (NS)
0023	SOFTENER	FEBCO ¾”	805YDC	H1532	175@140 (NS)
0023	SIDE TOWER	WATTS ¾”	909QT	551906	175@140
0024	NEXT TO MAIN	FEBCO 1.5”	825Y	09815	175@140
0029	SIDE WALL	WATTS ¾’	909QT	505393	175@140
0050	ROOF ACCES	WATTS 1.5”	007DC	01776	175@140 (NS)
0070	INSIDE	WATTS 1.5”	709DC	127734	175@140
0071	MECH ROOM	WATTS ¾”	007M2QT	94098	175@140 (NS)
0201	REAR BLDG	WATTS 2”	709DC	134477	175@140
0210	REAR BLDG	WATTS 2”	709DC	134468	175@140 (NS)
0211	MECH ROOM	WATTS 2”	909OT	363084	175@140
0213	REAR BLDG	WATTS 1”	709DC	64031	175@140 (NS)
0250	WATER SOFTENER	FEBCO ¾”	805YDC	14252	175@140 (NS)
0450	MECH ROOM	WATTS 1”	709DC	10147	175@140
0462	2” LINE	WATTS 2”	007DC	10808	175@140 (NS)
0470	HYDRANT	WATTS ¾”	909QT	552198	175@140
0480	MECH ROOM	WATTS ¾”	009RP	5875	175@140
0480	MECH ROOM	WATTS 2”	009RP	01188	175@140
0486	OUTSIDE	WATTS 2”	007M1QT	129157	150@110 (NS)
0487	OUTSIDE	WATTS 2”	009M1QT	76684	150@110
0502	FRONT BLDG	FEBCO 2.5”	805YD	9501090721	175@140
0503	OUTSIDE	WATTS 2”	007M1QT	14977	175@140
0503	MECH ROOM	WATTS ¾”	007M2QT	97142	175@140 (NS)
0505	FIR/RISR	CONBRACO 1.5”		G7675	175@140 (NS)
0505	BETWEEN BLDG	CONBRACO 1”	G-DC		175@140 (NS)
0521	MECH ROOM	WATTS 1.5”	909RP	213502	175@140 (NS)
0530	MECH ROOM	WATTS 1”	709DC	164019	175@140 (NS)
0532	FRONT BLDG	WATTS ¾”	709DC	169250	175@140 (NS)
0560	MECH ROOM	WATTS ¾”	709DC	101472	175@140 (NS)
0560	MECH ROOM	FEBCO 2”	805YDC	R2882	175@140 (NS)
0570	MECH ROOM	WATTS 2”	909	334657	175@140 (NS)
0630	MECH ROOM	WATTS 1”	790DC	104461	175@140 (NS)
0630	AIR COMP ROOM	WATTS 2”	709DC	117715	175@140 (NS)
0632	FRONT DOOR	WATTS ¾”	909RP	244632	175@140 (NS)
0650	REAR STATION	WATTS 1.5”	709DC	120783	175@140 (NS)
0680	EQUIPMENT ROOM	WATTS ¾”	909RP	458678	175@140 (NS)
0680	EQUIPMENT ROOM	WATTS 1.5”	709QT	140575	175@140 (NS)
0695	REAR BUILDING	WATTS ¾”	009M3	514066	175@140 (NS)
0696	OUTSIDE AC PAD	WATTS ¾”	909QTRP	523477	175@140 (NS)
0700	MECH ROOM	WATTS ¾”	909QT	465642	175@140
0710	MAIN AREA	WATTS 1.5”	B07M2	57280	175@140

BACKFLOW DEVICES

Station	Location	Make/Size	Model	Serial #	Rating
0720	SIDE	WATTS ¾”	007M3	40572	175@140 (NS)
0720		WATTS 1.5”	909M1QT	358008	175@140 (NS)
0740	FRONT	WATTS 1”	007M1QT	221041	175@140 (NS)
0900	MECH ROOM	WATTS 1”	009QT	14971	175@140 (NS)
0980	MECH ROOM	WATTS 2”	709DC	140121	175@140 (NS)
1060	MECH ROOM	WATTS 1”	009QT	470394	175@140 (NS)
1230	MECH ROOM	WATTS 1”	007MPT	309093	175@140
1230	OUTSIDE COOL TOW	WATTS 1”	909QT	537033	175@140
1240	MECH ROOM	WATTS 2”	709DC	134498	175@140
1310	INSIDE	RPZ 1.5”	009M1	48256	175@180
1319	INSIDE DARKRM LAB	WATTS ¾”	009M3QT	64187	175@140 (NS)
1319	INSIDE DARKRM LAB	WATTS ¾”	009M3QT	91045	175@140 (NS)
1320	L. WALL	WATTS ¾”	007DC	3186	(NS)
1320	R. WALL	FEBCO ¾”	805DC	8682	175@140 (NS)
1708	MECH ROOM	WATTS ¾”	007M3QT	88551	175@140 (NS)
1717	OUTSIDE CORNER	WATTS ¾”	007M3QT	94224	175@140 (NS)
1754	MECH ROOM	WATTS 1”	709DC	99558	175@140 (NS)
1810	RT SIDE OF STATION	AMES 6”	4000RP	0118E08	175@140 (NS)
1810	LG TANK	FEBCO 2”	825Y	H10768	175@140 (NS)
1861	MECH ROOM	WATTS 1.5”	709DC	133973	175@140 (NS)
1920	FRONT STATION	WATTS 3”	909RP	134437	175@140 (NS)
1950	MECH ROOM	WATTS 2”	709DC	139369	175@140
1970	1970/1971	WATTS 1”	709DC	161727	175@140 (NS)
1980	MECH ROOM	WATTS 1”	007M1QT	304424	175@140 (NS)
1985	TWR/SUP	FEBCO ¾”	765	82204	(NS)
1985	SOUTH	WATTS 2”	007M1QT	104384	175@140 (NS)

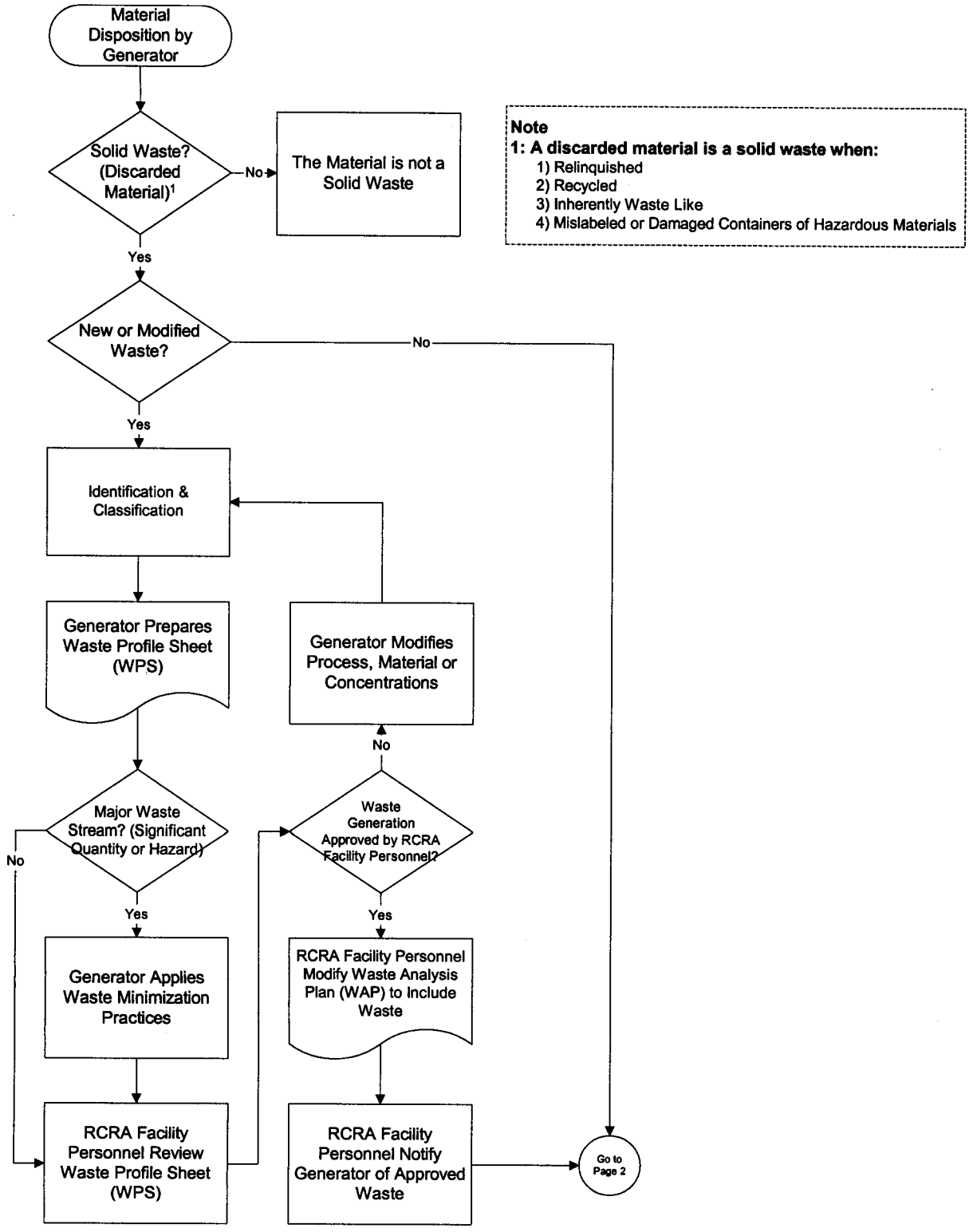
NS – Not in service

Note: The site is going through closure. Therefore, over time this list will be reduced.

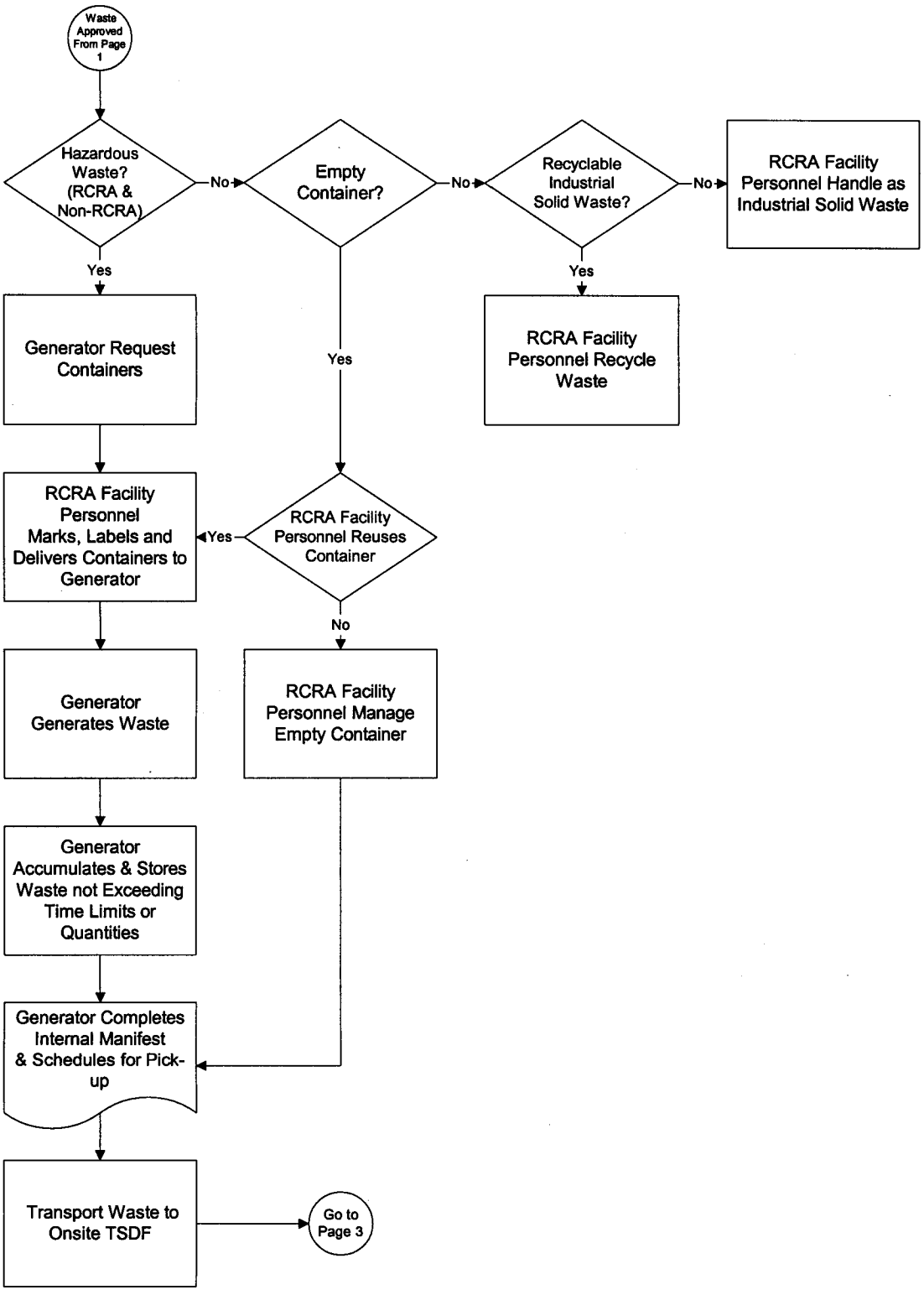
APPENDIX K

FLOW DIAGRAM OF WASTE MOVEMENT

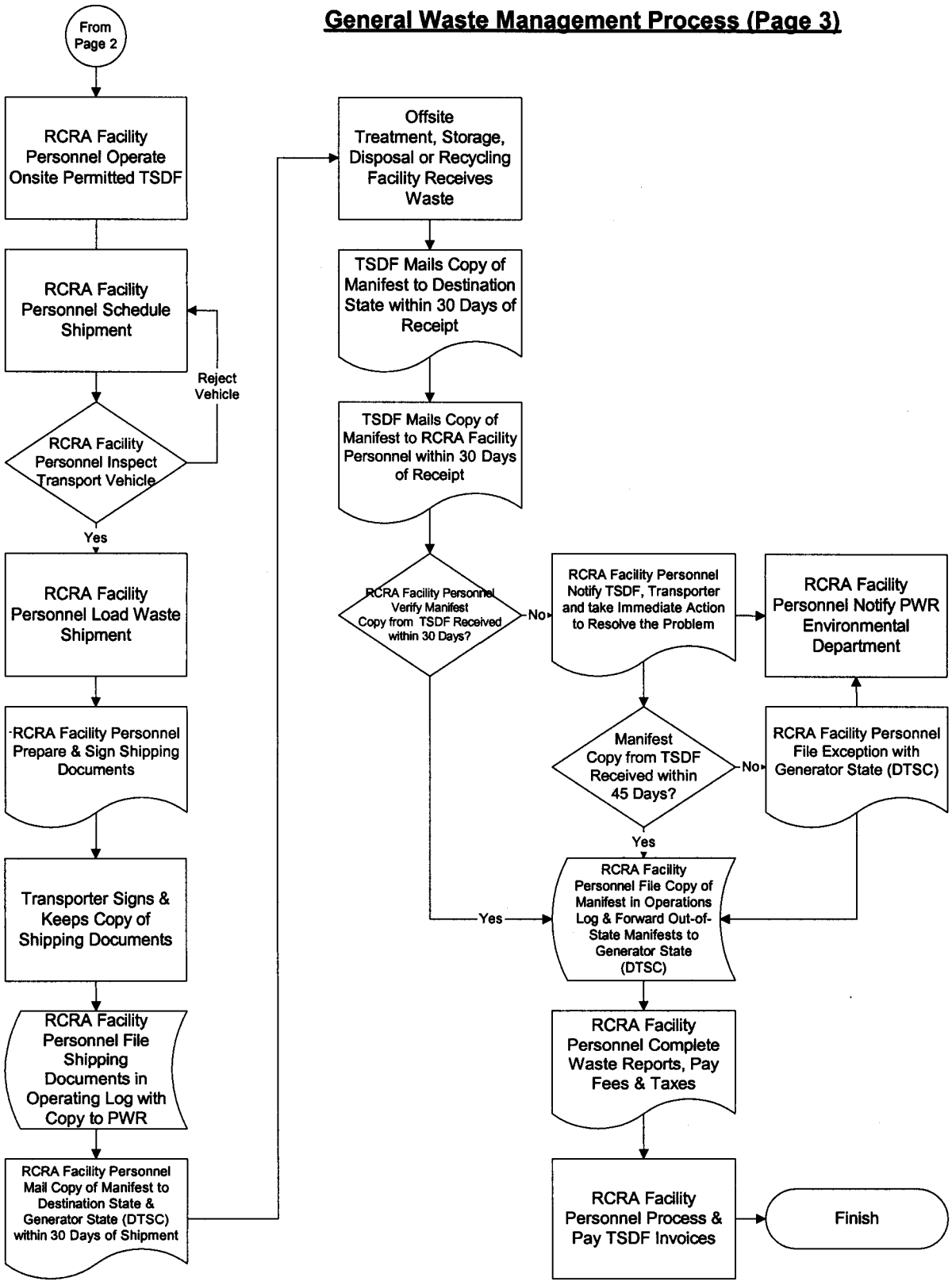
General Waste Management Process (Page 1)



General Waste Management Process (Page 2)



General Waste Management Process (Page 3)



APPENDIX L

PROCESS WASTE PROFILE FORM, PROCESS WASTE CONTAINER DELIVERY FORM, INTERNAL PROCESS WASTE MANIFEST CONTAINER PICK-UP FORM

Pratt & Whitney
A United Technologies Company

WASTE PROFILE FORM

Mail or fax one form for each waste stream to Environmental Engineering at 776-4444
Attached copies of all MSDS, Sample Analysis and Additional Characterization and Hazard Information

Section A: Waste Generator

Name of Waste Stream:	
Waste Contents or Description:	

Station:		**Shed Number:**	HW- -
Rate of Generation (Lbs. Or Gal./Month)		**Maximum Stored QTY** (Lbs. Or Gal/Month)	

Section B: Review Organizations

- ☐ DOT Unclassified
- ☐ DOT Classified
- ☐ Energetic Waste Treatment at HTF
- ☐ Energetic Waste (Off-site Treatment or Disposal)
- ☐ Non-Energetic Waste (Off-site Treatment or Disposal)
- ☐ Unknown

Profile Routing and Reviews

Review & Complete as Required	Materials	Name/ (Organization)	Signature	Date
A-E	All Materials	Waste Generator		
A-F	All Energetic Materials - Material Classification, Tentative Hazard Classification, Chemical Physical Properties and Associated Hazards	ABBLES/SMS		
A-H	All Energetic Materials - Storage BATF, & DOD Handbook Compliance	P&W Safety		
A-I	All Materials - Classification, Marking, Labeling, Shipping, DOT Compliance	ABBLES/SMS		
A-K	All Materials - RCRA Storage Compliance	P&W Environmental Department		
Other				

Comments:

<u>Generators Certification</u>: "I hereby certify that all information submitted in this document and on attachments or supplements represents a true, complete, and accurate identification and description of the waste material, its constituents and its hazards or suspected hazards to the best of my knowledge."

Signature of Station Supervisor	
Printed Name Station Supervisor	

Organization #		**Account Numbers I or D**		**Project**		**Task**	
Badge #:		**Phone #:**				**Date:**	

Attached copies of all MSDS, Sample Analysis and Additional Characterization and Hazard Information

Section C: Waste Generator (X Select Applicable)

Basis of Decision:

☐ **Process Knowledge** ☐ **Analytical or testing data**

Waste Source:

☐ Spent materials.
☐ Discarded commercial chemical products, off-specification species or out of date materials.
☐ By-products.
☐ Container residues or clean-up residues.
☐ Damaged container or spills.
☐ Unknowns, mislabeled or not adequately labeled containers.

Waste Generating Process (Point of Generation):

☐ Cleaning, stripping and degreasing.
☐ Surface preparation, coating, painting and finishing.
☐ Metal processing (electroplating, anodizing, etching, stripping, milling).
☐ Product or by-product generated process materials.
☐ One time and intermittent processes.
☐ Maintenance and service derived wastes.
☐ Remediation derived wastes.
☐ Pollution control or treatment process wastes.
☐ Laboratory wastes.
☐ Contaminated equipment, debris or materials.
☐ Empty containers.
☐ Universal wastes (batteries, pesticides, thermostats).
☐ Other Processes:

Protective Equipment Required:

☐ Eye (Goggles) ☐ Face (Face Shield) ☐ Dermal (Gloves)
☐ Inhalation (Respirator) ☐ Inhalation (SCBA/Air Line) ☐ Body (Type A,B,C,D)
☐ Other:

Primary & Secondary DOT Hazards:

☐ 1.1 Explosive	☐ 2.3 Inhalation Hazard	☐ 4.2 Dangerous When Wet	☐ 6.1 Harmful -Stow away from Foodstuffs
☐ 1.2 Explosive	☐ 3 Flammable	☐ 5.1 Oxidizer	☐ 6.2 Infections Substance
☐ 1.3 Explosive	☐ 3 Combustible	☐ 5.2 Organic Peroxide	☐ 7 Radioactive
☐ 1.4 Explosive	☐ 4.1 Flammable Solid	☐ 6.1 Inhalation Hazard (Zone A&B)	☐ 8 Corrosive
☐ 1.5 Explosive	☐ 4.2 Spontaneously Combustible	☐ 6.1 Poison	☐ 9 Misc.
☐ 1.6 Explosive			☐ ORM-D
☐ 2.1 Flammable Gas			
☐ 2.2 Non-Flammable Gas			
☐ 2.2 Oxygen			

Primary EPA Hazards:

☐ Ignitable (D001) ☐ Reactive (D003) ☐ Corrosive (D002) ☐ Toxic (D004-D043)

Other Hazards

General Characteristics			Reactive Characteristics		
Marine Pollutant	☐ Yes	☐ No	Explosive	☐ Yes	☐ No
HOT	☐ Yes	☐ No	Pyrophoric	☐ Yes	☐ No
California Listed Waste	☐ Yes	☐ No	Shock Sensitive	☐ Yes	☐ No
OSHA Carcinogen	☐ Yes	☐ No	Friction Sensitive	☐ Yes	☐ No
California Carcinogen	☐ Yes	☐ No	Temperature Sensitive	☐ Yes	☐ No
Proposition 65	☐ Yes	☐ No	Water Reactive	☐ Yes	☐ No
Contains PCB's	☐ Yes	☐ No	Air Reactive	☐ Yes	☐ No
Contains Dioxin/Furan	☐ Yes	☐ No	Reactive Cyanide	☐ Yes	☐ No
Radioactive Material	☐ Yes	☐ No	Reactive Sulfide	☐ Yes	☐ No
Asbestos Containing Material	☐ Yes	☐ No	Oxidizer	☐ Yes	☐ No
Benzene Containing Material	☐ Yes	☐ No	☐ Yes	☐ No	
EPA Hazardous Substance	☐ Yes	☐ No	Other:		
Contains Ozone Depleting Compound (ODC)	☐ Yes	☐ No			

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WASTE PROFILE FORM

Attached copies of all MSDS, Sample Analysis and Additional Characterization and Hazard Information

Section D: Waste Generator

Actual & Potential Chemical Constituents - Basis: ☐ Process Knowledge ☐ Analytical Data	Concentration Wt. % Low	Concentration Wt. % High	PEP (X)	ODC (x)	Prop 65 (x)
(1)			☐	☐	☐
(2)			☐	☐	☐
(3)			☐	☐	☐
(4)			☐	☐	☐
(5)			☐	☐	☐
(6)			☐	☐	☐
(7)			☐	☐	☐
(8)			☐	☐	☐
(9)			☐	☐	☐
(10)			☐	☐	☐
(11)			☐	☐	☐
(12)			☐	☐	☐
(13)			☐	☐	☐
(14)			☐	☐	☐
(15)			☐	☐	☐
(16)			☐	☐	☐
(17)			☐	☐	☐
(18)			☐	☐	☐
(19)			☐	☐	☐
(20)			☐	☐	☐

PEP - Compounds making up the Pyrotechnic, Explosives, and Propellants.

Net Explosive Weight per item or container: _____ lbs
Total Weight per container: _____ lbs

Physical Characteristics ☐ **Process Knowledge** ☐ **Analytical or testing data**

Density	_____ lbs/gal _____ lbs/ft^3	**Color and Appearance**	_____
pH (Liquids Only) (x Select One)	☐ < 2.0 ☐ 2.1-4.0 ☐ 4.1-10.0 ☐ 10.1-12.4 ☐ >12.5	**Odor (x Select one)**	☐ None ☐ Mild ☐ Strong Describe: _____
Flash Point (Liquids Only) (x Select one)	☐ <73◦F (23◦C) ☐ 73-140◦F (23-60◦C) ☐ 142-200◦F (61-93◦C) ☐ >200◦F (93◦C) ☐ Measured: _____◦F	**Physical State: (x Select one)**	☐ Liquid with <1% Solids ☐ Liquid with >1% Solids ☐ Semisolid ☐ Solid ☐ Gas ☐ Sludge From Pollution Control Device
Boiling Point (liquids only) (x Select one)	☐ <95◦F (35◦C) ☐ >95◦F (35◦C)	**Layers (liquids only) (x Select one)**	☐ Singled layered ☐ Bi-layered ___ % Top ___ % Bottom ☐ Multi-layered
Heat of Combustion	_____ BTU/lbs	**Viscosity (liquids only) (x Select one)**	☐ Low (<10 cps) ☐ Medium (>10 cps < 200 cps) ☐ High (>200 cps)
Total Organic Carbon (TOC):	☐ <1% by wt. ☐ >1 < 10 % by wt. ☐ >10 % by wt.	**Total Volatile Compounds (VOC)**	☐ <100 PPM ☐ >100 <500 PPM ☐ >500 PPM

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WASTE PROFILE FORM

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Section E: Waste Generator (X Select Applicable)

Contains Metals: ☐ **Yes** ☐ **No**

Metals Basis of Decision: ☐ **Process Knowledge** ☐ **Analytical Data (Attach)**

Metal	UTS Standard Wastewater	UTS Standard Non-Wastewater	Below Limits (x)	Above Limits (x)	Concentration (If Above)
Antimony	1.9 mg/l TCLP	2.1 mg/l TCLP	☐	☐	
Arsenic	1.4 mg/l TCLP	5.0 mg/l TCLP	☐	☐	
Barium	1.2 mg/l TCLP	7.6 mg/l TCLP	☐	☐	
Beryllium	0.82 mg/l TCLP	0.014 mg/l TCLP	☐	☐	
Cadmium	0.69 mg/l TCLP	0.19 mg/l TCLP	☐	☐	
Chromium	2.77 mg/l TCLP	0.86 mg/l TCLP	☐	☐	
Copper			☐	☐	
Lead	5 mg/l	0.37 mg/l TCLP	☐	☐	
Mercury	0.15 mg/l TCLP	0.25 mg/l TCLP	☐	☐	
Nickel	3.98 mg/l TCLP	5.0 mg/l TCLP	☐	☐	
Selenium	0.82 mg/l TCLP	0.16 mg/l TCLP	☐	☐	
Silver	0.43 mg/l TCLP	0.30 mg/l TCLP	☐	☐	
Thallium	1.4 mg/l TCLP	0.78 mg/l TCLP	☐	☐	
Vanadium	4.3 mg/l TCLP	0.23 mg/l TCLP	☐	☐	
Zinc	2.61 mg/l TCLP	5 mg/l TCLP.3	☐	☐	
Other					

Section F: Engineering (Energetic Materials)

The Generator accurately identifies and describes the energetic materials, its constituents and its hazards or suspected hazards to the best of my knowledge" ☐ Yes ☐ No **Initials:**

Tentative Hazard Class	
Material Similar to	
Special Instructions or Requirements	

Section G: Process Engineering (HTF/Magazine Personnel)

Special Instructions or Requirements	

Section H: Industrial, Systems Safety Engineering

Special Instructions or Requirements	

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WASTE PROFILE FORM

Attached copies of all MSDS, Sample Analysis and Additional Characterization and Hazard Information

Section I: Transportation Department

PACKAGING INSTRUCTIONS

Shipping Order No.		Date:	Sheet of
Item No:		Prepared by:	

SHIPPING CONTAINER MARKING & LABELING:

CONTENT I.D.		**HAZMAT I.D.**	
Part Number:		Proper Shipping Name:	
Description		Technical Names	
Nomenclature:		Class:	
Qty:		UN/NA:	
N.E.W.:		Pkg Grp:	
Contr. No.:		EX No.	
Packaging Instructions:		Label:	
		Other Markings:	
METHOD OF SHIPMENT	☐ Air ☐ Passenger ☐ Surface ☐ Cargo Air	**PLACARDS** Description:	Required: ☐ Yes ☐ No

Pratt & Whitney
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WASTE PROFILE FORM

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Section J: Environmental & Facilities Engineering

Waste Codes & Land Disposal Restriction Information

CS Profile #:	**C____ - ____**		
EPA Form Code	**B__**	EPA System Type Code	**M & M or M & M**
EPA Source Code	**A__**	EPA Source Reduction Activity Code[1]	**W__**
Waste Name			
Point of Generation			
PW ID or Vendor Code			

EPA Waste Codes	State Waste Code	Sub-category (if applicable)	Treatability Group	Required LDR Treatment Method(s)

LDR Treatment Method(s) - See 66268.42 for complete List	AMLGM - Amalgamation	DEACT - Deactivation	NEUTR - Neutralization	RMETL - Recovery of Metals
	BIODG - Biodegradation	HLVIT - Vitrification	NLDBR - No land disposal based on recycling	RORGS - Recovery of Organics
	CHORD - Chemical Oxidation	INCIN - Incineration	PRECP - Chemical Precipitation	STABL - Stabilization
	CHRED -Chemical Reduction	MACRO - Macroencapsulation	RMERC - Retorting of Mercury	WETOX - Wet Air Oxidation

Debris contaminates subject to treatment		
Underlying Hazardous Constituents (If required)		
Required LDR Treatment Methods		

Section K: Environmental & Facilities Engineering

Approved Treatment, Storage & Disposal Facilities

Disposition Information	Primary TSDF Site	Alternate TSDF Site
TSDF Site Name		
TSDF EPA ID		
TSDF Profile Number		
EPA System Type Code	**M**	**M**

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Waste Container Delivery Form

(For delivery of hazardous waste containers mail or fax form to the Hazardous Waste Storage Pad [Station 2233] at 776-4444)

Container Issue Date:	

Requester:			
Company/Badge Number:		**Radio Call Sign:**	
Station:		**Ext. Number:**	

Waste Contents or Description	Waste Profile Number [1]	Container Description	Project Number	Task Number	IM Container Number [2]
Special requirements:					

NOTE 1: Waste profile number can be found on Profile Relationship Table.
NOTE 2: the HAZPAD personnel issue IM Container Number.

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Internal Process Waste Manifest
Container Pick-up Form

(For pick-up of hazardous waste containers contact HAZPAD personnel via radio call sign or by phone at ext. 4785))

First Date Waste Added to Container	Container Full Date	Container Pick-up Date [1]

Requestor:	**Radio Call Sign:**
Badge:	**Ext. No.:**
Station:	**Project/Task Number:**
IM Number [2]	**Waste Profile No.:**

Date Waste Added:	Station No.:	Name of Person Adding waste:	Description of Waste Added to Container:	Amount (Lbs. Or Gal)

For additional waste continue on another Internal Waste Manifest/Container Pick-up Form (note page numbers at bottom of form)

Generators Certification:	"I hereby certify that all information submitted in this document is complete and accurate to the best of my knowledge and information. I further declare that the contents of this consignment are fully and accurately described by proper name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport in a safe and legal manner."

Signature of Station Supervisor or Authorized Agent:	
Printed Name & Title of Station Supervisor or Authorized Agent:	

Badge #: Phone #: Date:

NOTE 1: Container Pick-up Date is completed by HAZPAD personnel
NOTE 2: IM number is assigned by HAZPAD personnel and is located on the waste label.

APPENDIX M

OPERATIONAL PROCEDURES FOR WASTE HANDLING

OPERATIONAL PROCEDURES
FOR WASTE HANDLING

The procedure in Appendix M is current as of the date of the submission of this report. The procedure is regularly reviewed and updated. Most of the changes are minor in nature. Therefore, newer copies will not be submitted to the agencies. All major changes will be submitted to the agencies. If you need the most current copy, please contact UTC.

- Work Instruction 23.06.06 General Waste Container Management

1.0 Scope

1. This document establishes the procedures and organizational responsibilities for the management of wastes in containers. It is the responsibility of each affected organization to develop the necessary Standard Instructions to support this work instruction. This document covers the minimum requirements for the proper management of hazardous waste generated by UTC PWR, San Jose, CA. Additional requirements concerning the management of hazardous wastes can be found in:

   - FM 23.06.06.01 – *Process Waste Container Delivery Form*
   - FM 23.06.06.02 - *Internal Process Waste Manifest Container Pick-up Form*
   - W.I. 23.06.07 - *Waste Identification and Characterization*
   - W.I. 23.06.12 - *Management of Waste with Special Requirements*
   - W.I. 23.06.13 - *Facilities, Equipment and Device Closure and Decontamination Procedure*
   - W.I. 23.06.14 - *Hazardous Waste Storage Tank Management*
   - W.I. 23.06.26 - *Waste Analysis Plan*
   - W.I. 23.06.30 - *Hazardous Waste Manifest Management*
   - W.I. 23.06.31 - *Land Disposal Restriction (LDR) Requirements*
   - W.I. 23.06.33 - *Lab Pack Management*
   - W.I. 23.06.34 - *Used Oil Requirements*
   - W.I. 23.06.35 - *Other Industrial Process Waste*
   - W.I. 23.06.36 - *PCB Management System*
   - W.I. 23.06.39 - *Empty Container Management*
   - Pratt & Whitney Environmental, Health and Safety Standards

2. These minimum requirements shall be followed unless it can be shown that it is not feasible or impractical to implement.

3. Contractors may follow their own procedures as long as those procedures are not inconsistent with these documents and are fully compliant with applicable Federal, State, and Local requirements.

2.0 Purpose

This work instruction applies to all Pratt & Whitney/Space Propulsion (P&W/SP) facilities in California operating as a generator or as a permitted or interim status treatment, storage and disposal facility (TSDF). The purpose of this work instruction is to establish policies and procedures for the proper management of hazardous waste in containers.

3.0 Ownership and Approval

The Manager of Environmental is the owner of this work instruction. The owner or designee must approve this work instruction and all revisions.

4.0 References

This work instruction implements, in part:

- Pratt & Whitney Group Standards
- Resource Conservation Recovery Act (RCRA), U.S. Code (USC), Title 42, Sections 6901, et seq.
- Code of Federal Regulations 40 CFR Part 260-280
- California Hazardous Waste Control Law (HWCL), Health and Safety Code Sections 25100 through 25490.
- California Code of Regulations Title 22 CCR 66260-66280

5.0 Policy

UTC PWR will meet all federal, state and local requirements for the management of solid and hazardous waste.

6.0 Definitions

The following definitions are presented to assist UTC PWR facilities in understanding the terms used in this work instruction. Definitions can be found in CCR 66260.10 or 40 CFR 260.10.

Accumulation: The initial amount of hazardous waste, which is collected before the storage time limit, applies to the material. The accumulation start date begins when the first material is accumulated and placed into the container.

Container: Any open or closed portable device, in which a material is accumulated, stored, transported, treated, recycled, disposed of or otherwise handled. Containers include step cans, safety cans, carboys, drums, barrels and other portable devices.

Hazardous Waste: Any discarded material that may pose a substantial threat or potential hazard to human health or the environment. A waste is considered hazardous if it is listed or it has any of the characteristics of ignitable, corrosive, reactive, or toxic. (For a complete definition see Title 22 CCR 66261.2, et seq.)

Incompatible Wastes: Any waste material which, when commingled or mixed, may cause the:

- Generation of extreme heat or pressure, fire or explosion, or violent reaction.
- Production of uncontrolled toxic mists, fumes, dusts or gases to threaten human health or environment.
- Production of uncontrolled flammable fumes or gases to pose risk of fire or explosions.
- Damage(corrosion or decay) to structural integrity of hazardous waste containment devices.
- Threat to human health or the environment.

Non-Hazardous Waste: Means discarded wastes that are not federally designated or California-designated hazardous wastes.

Non-RCRA Hazardous Waste: Means discarded California-designated wastes that have been determined to be a hazardous waste because the material is from a California listed substance or poses a California hazardous waste characteristic.

6.0 Definitions (Cont'd)

Primary Containment: The first level of containment, which comes into immediate contact with the material being contained (i.e. container or tank walls).

Process Waste: Means wastes generated through processes performed at P&W facilities. For the purpose of this standard, process waste does not include cardboard, office paper and building materials such as glass that are not contaminated with hazardous materials.

Product-Tight: Impervious to the hazardous material being contained, so as to prevent the seepage of the material from its primary containment. To be product-tight, the container must be made of a material that is not subject to physical or chemical deterioration by the hazardous material being contained.

RCRA Hazardous Waste: Means discarded federally designated wastes that have been determined to be a hazardous waste because the material is from a RCRA listed source, RCRA listed substance, or poses a RCRA hazardous waste characteristic.

Rubbish: Means non-hazardous waste such as ashes, paper, cardboard, tin cans, wood, glass, bedding, crockery, plastics, rubber by-products, or litter.

Secondary Containment: Containment, which is external to and separated from the primary containment, and that, is impervious to the material being contained. Further, secondary containment is capable of containing 110% of the volume of the primary container, or in the case of multiple containers 150% of the volume of the largest primary container or 10% of the aggregate, whichever is greater. Secondary containment prevents a material from being released to the environment.

Spill or Release: Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injection, escaping, leaching, dumping, or disposing of regulated material from primary containment.

Storage: The holding of hazardous waste for a temporary period of time in a hazardous waste management area.

Tank: A stationary device constructed primarily of non-earthen materials (e.g., wood, concrete, steel, plastic), which provide structural support to contain an accumulation of hazardous waste.

Treatment: Any method, technique, or process designed to change the physical, chemical, or biological character or composition of any hazardous waste. Treatment includes all methods, techniques, or processes that:

- neutralizes, or
- recovers energy from the waste, or
- recovers materials from the waste (separation), or
- a reduction in waste volume, or
- as to render the waste so that it is less hazardous, or
- to render the waste material so that it is safer to transport, store, or dispose.

A partial list of treatment technologies would include: neutralization, settling, clarification, filtering, fixation, stabilization, de-watering, adsorption, absorption, reverse osmosis, ion exchange, energy or material recovery, oxidation, reduction, precipitation, incineration, open-burning, hydrolysis, extraction, evaporation, fractionation, distillation, and separation.

Waste Management Area: Any physical location (or physical unit) designated and approved by UTC PWR Environmental for the storage of waste.

These areas include:

- Temporary Accumulation Container that temporarily accumulates limited quantities of waste. The temporary accumulation container shall be located “at or near” the area where the waste is generated and which is “under the control of the operator of the process generating the waste.” This waste must be transferred to a waste storage area when the operator leaves the work area or at the end of the shift. (Example: Step cans and safety cans.)
- Waste storage areas that accumulate and store hazardous waste for less than ninety (90) days. (Example: DOT approved containers within an external storage shed).
- Permitted and Interim Status Storage Areas that accumulate and store hazardous waste for greater than (90) ninety days or that treat hazardous waste.

7.0 Waste Management Procedures

Waste Generator

1. General Requirements

   The Waste Generator is responsible to develop, document, and implement systems and work instructions to ensure the proper management of wastes. This system shall include:

   - Written work instructions that cover the identification of wastes, hazards, proper handling instructions and required personal protective equipment (PPE) for each hazardous waste management activity, and

   - Written procedures to ensure that activities are assigned only to individual employees that are properly trained for their job assignments.

     - Contact UTC PWR Environmental if any of these procedures cannot be followed completely or if there are ambiguities in the requirements, or if assistance is needed in the proper management of wastes.

     - Ensure that waste is not stored in containers for more than one shift after being filled in Temporary Accumulation Containers and not more than (60) sixty days at a hazardous waste storage area without written approval from UTC PWR Environmental.

     - Ensure that waste is not generated, treated, or modified without notifying UTC PWR Environmental and Waste Management Contractor so that the proper permits can be acquired.

2. New or Modified Waste

   - Notify UTC PWR Environmental and Waste Management Contractor prior to generation of all new or modified waste streams per work instructions. A waste is any discarded material.

3. Waste Identification and Characterization

   - Ensure that all waste materials are properly identified and characterized to the extent necessary to ensure their proper management. Each waste stream must be properly identified, characterized, and documented with proper analytical testing or by applying knowledge of materials and processes. The Waste Generator shall complete and maintain a Waste Profile Sheet. For assistance in identification and characterization, see work instructions W.I. 23.06.07, *Waste Identification and Classification* and W.I. 23.06.27, *Waste Analysis Plan*.

- If a material or waste cannot be properly identified then it should be classified as an "unknown." All unknowns must be labeled with a "Pending Analysis" label and a "Hazardous Waste" label.

  Ensure that the "Pending Analysis" label contains the words:

  1) "Pending Analysis - Do not Remove",
  2) Source/Contents,
  3) Start Accumulation Date,
  4) Date Sampled,
  5) Environmental Sample Analysis Report Number (ESAR #), and
  6) Contact name and extension.

  See Appendix B for a sample label.

- If an "unknown" is later found through analytical analysis to be non-hazardous then the Hazardous Waste label may be removed.

- The Generator must fill out a **Waste Profile Form**, form 23.06.07.01; certify that the profile is accurate and forward a copy to UTC PWR Environmental and Waste Management Contractor. UTC PWR Environmental Waste Management Contractor will review the completed Waste Profile Form, identify possible disposition (TSDF) for the waste and assign a profile number. UTC PWR Environmental Waste Management Contractor will notify the requester of all rejected waste profiles. The generator must submit the new or modified Waste Profile Sheet (WPS) at least ninety (90) days prior to generation of a new or modified waste. The Generator must maintain a copy on file as long as the waste is being generated.

UTC PWR ENVIRONMENTAL & UTC PWR FACILITIES ENGINEERING:

4. Facility Design, Modification, and Installation

   - Design and construct hazardous waste management areas that minimize uncontrolled releases of wastes and materials to the environment.

     - Waste management units must be designed with secondary containment that is impervious to spills and releases. The secondary containment shall be designed to be compatible with the material stored.

Secondary containment shall be designed and constructed to contain 110% of the volume of the primary container, or in the case of multiple containers: 150% of the volume of the largest primary container or 10% of the aggregate, whichever is greater. Secondary containment requirements apply to both solid and liquid materials.

- Waste management units must also be designed to protect stored wastes against adverse weather conditions or earthquakes.

UTC PWR ENVIRONMENTAL & WASTE MANAGEMENT CONTRACTOR:

5. Waste Approval

   - UTC PWR Environmental and Waste Management Contractor approve once a waste stream then the new waste or modified waste stream may be generated. In addition, all new or modified waste streams of significant quantities or hazards must be approved by the EH&S Council.

6. Waste Minimization Plan

   - Identify, document, update potential waste reduction opportunities. The Generator must prepare and update every three years a Waste Minimization Plan (WMP). The plan shall be kept on file for at least 3 years. This Waste Minimization Plan may include:

     - Management certification statement and signature,

     - Process, equipment, and operations descriptions, (recommended),

     - Block diagram of the processes and operations, (recommended),

     - Amount of chemicals used, (recommended). Wastes generated by processes and operations,

     - Performance goals, gap analysis, and implementation schedule.

WASTE GENERATOR:

9. RCRA Subtitle "D" Solid Wastes

- Non-RCRA California Hazardous Wastes: Manage all California hazardous wastes, California extremely hazardous wastes, and California special wastes per the requirements contained in this work instruction and all other work instructions listed in Section 1 above.

- Other Industrial Process Wastes: Manage all other industrial process wastes per work instruction W.I. 23.06.35, *Other Industrial Process Waste*. Other industrial process wastes include: California designated wastes, California excluded wastes, California recycled and reuse materials, construction, and demolition wastes, non-hazardous waste, refuse, scrap metal, rubbish, garbage, and inert waste.

WASTE GENERATOR:

10. Requesting New Containers

- Generator must insure that all waste streams are properly profiled per work instruction W.I. 23.06.07, *Waste Identification/Characterization*, prior to generation.

- Prior to generating an energetic or non-energetic waste, the generator must request the proper DOT accumulation containers from Waste Management Contractor using the **Process Waste Container Delivery Form** FM 23.06.06.01. UTC PWR Environmental or Waste Management Contractor will verify that a waste profile is on file for the waste and that the requested container is compatible with the waste stream. Waste Management Contractor will then order the containers from a vendor. Waste Management Contractor shall then deliver the containers to the designated generator accumulation area (shed). Waste Management Contractor may deliver the containers with the necessary labels and markings attached or the generator will then properly fill out and apply the labels and markings to each container. Waste Management Contractor or generator will label and mark each container accumulating waste. The labels and markings shall be legible and in good condition. It is the responsibility of the generator to make sure that the label and markings properly represent the materials and are legible at all times.

11. Empty Containers

- Properly identify and manage empty waste containers per the requirements found in work instruction, W.I. 23.06.39, *Empty Container Management*. See Appendix C for a sample label. All empty waste containers must be labeled with the words:

  1) "Empty Container" or "Contains Empty Containers,"
  2) Description of Last Contents,
  3) Date the container was emptied,

4) Contact Name and extension.

12. General Requirements

- Ensure that good housekeeping is practiced at all times including:
  - All small spills or drips must be cleaned and removed when observed.
  - Keep all work areas and surfaces neat and orderly.
  - Keep all corridors and exit routes free from obstructions.
  - Do not store wastes on top of cabinets or stack containers that contain wastes.
  - Make sure there is clear access to fire extinguishers and emergency equipment.
  - Provide personal protective equipment.
  - Keep floors and stairways clean and safe.
  - Remove anything that could cause injuries.
  - Keep ceilings and walls free from obstructions.
  - Provide adequate lighting and ventilation.

13. Container Requirements

- Ensure that containers used for waste accumulation shall be compatible with the material being accumulated. All containers must meet the following requirements:
  - Containers must be product-tight, in good condition, free from bulges, dents, and rust. If the condition of the container deteriorates during waste accumulation and / or storage, the contents shall be immediately transferred to another container that is in good condition.
  - All containers that are used in hazardous waste storage areas must meet U.S. Department of Transportation (DOT) requirements. All containers used as temporary accumulation containers that do not meet DOT requirements must be less than 0.1 M^3 (approximately 26 gallons) in capacity [note - cubic yard boxes that meet DOT requirements are also used].
  - Waste management areas must be inspected at least once a week to discover any leaks or releases from the containers, containment systems, or secondary containment systems. All inspections must be documented. (Tanks and tank

systems must be inspected each operating day.) Maintain a logbook at the waste generating facility (station) of all inspections for at least three (3) years.

- Containers must not be overfilled, and have adequate headspace (i.e., at least 3 inches) to allow for thermal expansion of waste streams.

- Incompatible wastes shall not be placed in the same container, nor in a container that previously contained an incompatible material. A berm, wall, or other containment device must separate containers storing materials that are incompatible with any other material. See Appendix G regarding materials, which may be incompatible when mixed.

- Provide and maintain closed containers at all times except when adding or removing waste. Container closure requirements include:

  - Containers of waste must be kept closed, (product-tight) during accumulation, except when it is necessary to add or remove waste. A container is deemed to be adequately closed if it minimizes the discharge of waste or vapors to the environment under normal operating conditions, including situations in which the container is tipped.

  - Containers shall not be opened, handled, transferred, or stored in a manner which may cause a leak, container failure, reaction, fire, or explosion.

  - Liquid waste containers shall be product-tight and closed by means of a threaded bung seal except when adding or removing waste from the container.

  - Waste containers collecting solid wastes must be product-tight and closed with a properly sealed lid. A container is considered closed if none of its contents will be released if the container is knocked over by accident. Safety cans and step-cans are closed when the spring loaded cover is in the lowered position, and drums and carboys are closed when the bung is closed with a threaded bung seal. Safety cans and step-cans may be used as temporary accumulation containers only. Waste from temporary accumulation containers must be transferred to DOT container prior to storage in a waste storage area.

  - Containers must not be handled in a manner that may cause material to leak or rupture.

  - Containers must not be opened in a manner that prevents their future closure. Small containers must not be filled to a point where transferring the contents into larger containers is difficult or likely to result in spills or releases. All such waste transfers are to be conducted by appropriately trained personnel.

- All containers must be secured prior to transportation / movement, both within the facility and / or off-site. Containers are secure when all port holes, valves, bung holes and other access points are closed and lids are fitted with threaded bung seals, locking rings, clamps, or other devices to prevent the release of the contents of the container during movement or transportation.

- Ensure proper aisle space around containers. The requirements for aisle space are:

  - There must be adequate aisle space, minimum of 36", in all waste management areas. This will allow for the unobstructed movement of personnel, fire protection equipment, spill control equipment and decontamination equipment. In addition, sufficient aisle space must be provided to allow for label reading and for the routine inspection of the condition of containers. Where container movement, specialized equipment, or size of the containers require, then greater aisle space must be provided to allow for operation and management of this equipment movement.

    NOTE: Aisle space parameters noted above do not supersede permit requirements where stipulated.

  - Where 55-gallon containers are in storage, aisles must be located so that no more than one row of containers is lining each side of a 30” wide (minimum) aisle. Up to four rows of fifty-five gallon containers may be stored in racks as long as there is an aisle on each side of the row of containers and a minimum flue space of 12” is maintained between rows of pallets. If containers are stored on pallets, at least 12” must be provided on one side of the pallet to facilitate inspection in addition to the 30” wide (minimum) aisle on one side of the pallet.

  - Aisle space is not required in small storage sheds but the generator must orient the containers in a way that allows for routine inspection of the label.

14. Labeling & Marking Requirements

- Generator will ensure that labels and markings on each container accumulating waste properly represent the waste being accumulated. Appendix D contains a sample container label for hazardous waste. The labels and markings shall be legible and in good condition. The following information shall be identified on each container:

  - A generic description of the composition of the waste (the generic description should be in simple language to avoid confusion and marked as e.g., “Contains: Rags contaminated with Acetone and 1,1,1,- Trichloroethane”),

  - The physical state of the waste (e.g., solid, liquid, gas, sludge),

- The hazardous properties of the waste (e.g., ignitable, reactive, corrosive, and toxic),

- The name and address of the person producing the waste, and

- The accumulation start date as the first quantity of waste enters the container. For temporary accumulation, containers use the words "*Empty Daily*" instead of a specific date.

  NOTE: P&W also allows the use of the container issue date.

- If a container previously held or holds a Proposition 65 material then the container must be labeled with a the proper Proposition 65 warning label. The label or notice must contain the following warning: "**WARNING: Chemicals known to the state to cause cancer or reproductive toxicity**".

- If a container previously held or holds an Ozone Depleting Substance (ODS) – CFC, then the container shall be labeled with the proper ODS warning label. The label must contain the following warning**: "WARNING: Contains ___ {insert name or names of class I or class II substances} ___, a substance which harms public health and environment by destroying ozone in the upper atmosphere."**

- All waste storage areas (less than ninety (90) day storage areas) shall be identified with a sign with the words "**Hazardous Waste Accumulation Area**" (see Appendix H). All permitted storage areas shall be identified with a sign with the words "**DANGER – HAZARDOUS WASTE AREA**."

15. Waste Accumulation

    Temporary Accumulation Containers

    1. Ensure that the temporary accumulation containers are located at or near the point where the waste is initially generated and is under the control of the operator of the process generating the waste.

    2. Ensure that waste from temporary accumulation containers is transferred to a waste storage area when the operator leaves the work area or at the end of a shift.

    3. Containers must be less than twenty-six (26) gallons in capacity or must be DOT/UN approved containers.

    4. Containers must be marked properly. Temporary accumulation containers must be marked with the words "**EMPTY DAILY**" in place of the actual date.

Satellite Accumulation Rule

1. The Satellite Accumulation Rule containers (Point of Generation Containers – POG's) are strictly **forbidden** and are not an acceptable form of accumulation or storage at UTC PWR. The Satellite Accumulation Rule is the accumulation of waste at the point of generation up to 55 gallons of hazardous waste or one quart of acute or extremely hazardous waste for one year without a storage permit if special management and marking requirements are followed. Only three forms of storage are allowed at UTC PWR: temporary accumulation containers (waste generated and transferred to a storage area daily), <90 day storage areas, Hazardous Waste Permitted Storage Area (permit issued by the California EPA – DTSC).

Waste Storage Area (<90 Day Storage)

1. Containers must be DOT/UN approved containers.

2. Containers must be properly marked.

3. Explosive waste must not be accumulated or stored for more than 30 days. Explosive waste must be shipped to explosive waste magazine (station 312) within 30 days from the accumulation start date. Explosive waste not treated off-site shall be treated in the Hydrolysis Treatment Facility (503) within 60 days of the accumulation start date *.

   * Explosive waste treated off-site must be removed from the site within 90 days of the accumulation start date.

4. Non-explosive waste must not be accumulated or stored for more than 60 days. Containers that are full or approaching 50 days from the accumulation start date must be prepared for pick-up. Containers must be shipped to the waste storage area within 60 days from the accumulation start date.

   Hazardous waste exceeding a specified time limit must be reported immediately to Environmental. UTC PWR Environmental may grant an extension in writing to exceed the 60 day storage limit for non-explosive waste and 30 day storage limit for explosive waste. At no time may waste be stored more than 90 days without a valid permit or written extension issued by California EPA – DTSC.

5. Waste storage areas must be inspected weekly and documented. Maintain a logbook at the waste generating facility (station) of all inspections for at least 3 years.

6. Waste storage areas must be properly identified with an approved "Hazardous Waste Accumulation Area" label.

Permitted Waste Storage Facility

1. Permitted waste storage facilities must comply with the requirements contained in the (a) RCRA Part A Permit Application and Operation Plan (b) Permit and permit conditions issued by the administrating agency (California EPA – DTSC), and (c) Federal, State, and Local statutory and regulatory requirements. At no time may waste be stored more than one year (365 days) without a written extension issued by California EPA – DTSC.

16. Incompatible Materials

- Ensure proper segregation of Incompatible Materials. Wastes must be compatible with their containers or container liners. Incompatible materials must not be placed in the same container or same storage area. Materials must not be placed in an unwashed container that previously held an incompatible material. (See Appendix G for a Incompatibility Chart.)

  - Waste Compatibility with Other Wastes: If more than one waste is accumulated at an area, the wastes shall be evaluated to ensure that they are compatible with one another. If they are not, they shall be segregated to prevent commingling. Generator shall work with the UTC PWR Environmental and Waste Management Contractor to determine waste compatibility. If incompatible wastes are to be stored in the same area, a means of physical separation, such as berms or dikes must be provided to prevent mixing.

  - Waste Compatibility with Non-waste Materials: Hazardous waste accumulated in an area must also be compatible with non-waste materials stored in the area. A physical means of separation must also be provided to segregate incompatible waste and non-waste materials. Generator shall work with UTC PWR Environmental and Waste Management Contractor to determine non-waste material and hazardous waste compatibility.

  - Non-Hazardous Waste in Container Management Areas: Ensure that non-hazardous and hazardous wastes are clearly distinguished and stored in separate areas. There must be proper training and procedures to prevent the inadvertent mixing of hazardous and non-hazardous wastes.

17. Ignitable/Reactive Materials (Additional Requirements)

- Ensure that Ignitable/Reactive Materials are properly managed. In addition to the general container management requirements outlined in this standard, all containers accumulating ignitable or reactive materials must adhere to the following requirements:

- Ignitable and reactive waste must be located at least fifty (50) feet from the property line.

- Ignitable and reactive wastes must be separated from sources of ignition or reaction including open flames, smoking and hot surfaces.

- A "***No Smoking or Open Flames***" sign must be posted in the vicinity (i.e., within a zone of 20 feet) of the ignitable waste storage area (at less-than- and greater-than-90-day storage areas.)

- Ignitable waste containers must be grounded, and non-sparking tools must be used to open and close the container, or transfer materials to or from the container.

18. Energetic (Explosive) Materials (Additional Requirements)

For additional information contact UTC PWR Environmental and the Waste Management Contractor.

- **General Requirements**

a) Waste profiles must be completed prior to generation of all energetic materials.

b) Insert in a conductive plastic bag and place bag in a DOT fiber drum or cubic yard box.

c) Tie the bag securely with gaffers tape, string, or other means securely enough to prevent spillage of the propellant.

d) On the outside of the bag or container, attach a completed Hazardous Waste label. (See Appendix D)

e) Place all explosive waste in a magazine or Safety approved temporary storage location pending shipment to Station 312 Magazine.

f) Separate materials by propellant formulation and program within the containers.

- HMX and RDX Waste Packaging and Labeling

NOTE: This waste includes bulk solid high explosives, HMX and RDX, and material contaminated with these explosives.

a) HMX and RDX must be mixed with water to a slurry consistency and placed in conductive plastic bags. The gross weight of the bags should be approximately 10 pounds. Seal the bags to prevent evaporation of the water.

b) On the outside of the bag, attach a completed Hazardous Waste Label, See Appendix D.

- LIQUID High Explosives Waste Packaging and Labeling

NOTE: This waste includes liquid high explosives such as TMETH, BTTN, and material contaminated with high explosives. Desensitize neat liquids with an appropriate solvent.

a) Mix liquid explosives wastes with sawdust, enough sawdust to completely absorb the liquid.

b) Place the liquid sawdust mixture in plastic-lined steel drums or plastic buckets. Secure lids in place with gaffers tape or retaining ring.

c) On the outside of the container, attach a completed Hazardous Waste Label, see Appendix D.

- Explosives Contaminated Waste

NOTE: This waste is made up of inert materials contaminated with less than 5% propellant or explosives. Examples of explosive contaminated waste include, but are not limited to gloves, cloth, paper, velostat sheets and bags with visible contamination, mop heads and HMX bags. (HMX containing materials should be wetted by no less than 15% water by weight.)

a) Prior to placing this material in conductive plastic bags for disposal, ensure that the material is fact contaminated with explosive or propellant.

b) Place explosive contaminated waste in conductive plastic bags.

c) Tie the bag securely with conductive tape or other means to prevent spillage of the contents.

d) On the outside of the bag, attach a completed Hazardous Waste Label. If the bag is placed inside a fiber drum of cubic yard box, complete and attach a Hazardous Waste Label, see Appendix D.

e) Explosive contaminated waste with potential 1.1 explosive materials must be segregated from 1.3 explosive materials.

19. Inspection Requirements

- Ensure that all waste management areas are subject to routine, documented inspection programs.

- Each waste management area must be inspected at least weekly. The employee inspecting the area must be properly trained, date and sign (using full name) the inspection form each week. All findings must be brought to the Waste Generator Management attention on the day of the inspection. The Hazardous Waste Storage - Weekly Inspection form is to be used for all waste areas (form 26.06.06.03). Appendix E contains the instructions for completing this form. All waste storage tanks must be inspected each operating day.

- The Waste Storage - Weekly Inspection form must be reviewed for findings and signed off each month by the Waste Generator Management (name must be legible).

  The Waste Generator Management is responsible for seeing that each finding identified is properly corrected in a timely manner. All corrective actions must be identified on the container inspection form, dated and signed by the Waste Generator Management (signature must be legible).

20. Internal Manifesting & Pre-transportation Requirements

- Complete and sign an **Internal Process Waste Manifest** (form 23.06.06.02) prior to notification of Waste Management Contractor that waste is ready for pick-up. All internal waste manifests must be kept for a minimum of three (3) years after the waste was generated. When the waste is ready for pick-up and properly sealed (product-tight), the generator shall call the Waste Management Contractor at extension 4785.

- Rejected wastes shall be tagged with a "*Waste Refusal Tag*." On the tag, the generator shall be notified of deficiencies or problems. The maximum 60-day accumulation limit for non-energetic wastes and 30-day accumulation limit for energetic wastes still applies for each container, therefore, take prompt action to correct all deficiencies and problems so that waste can be picked up.

UTC PWR ENVIRONMENTAL OR WASTE MANAGEMENT CONTRACTOR:

21. Transport Waste

- Transport non-energetic waste from the generator to Waste Storage Facility (2233). The shipment of waste is initiated and accompanied by a properly completed **Internal Process Waste Manifest**. UTC PWR Environmental or Waste Management Contractor shall inspect each container prior to transportation to ensure that the container is properly labeled and is in good condition.

- Energetic wastes are to be shipped to the Station 312 storage magazines. Generator must complete an **Internal Process Waste Manifest** to accompany the waste and provide a copy to UTC PWR Environmental and Waste Management

Contractor. Station personnel shall inspect each container prior to transportation to ensure that the container is properly labeled and is in good condition. Station personnel will then make arrangements with Generator to receive the waste at Station 312 storage magazine. Generator personnel will transport the waste.

- UTC PWR Environmental or Waste Management Contractor personnel will inspect the waste and either approve or reject the material. Rejected wastes shall be tagged with a "*Waste Refusal Tag*." On the tag, the generator shall be notified of deficiencies or problems. As soon as these problems are corrected then the waste may be returned to Station 312 storage magazine.

22. Waste Storage, Treatment, and Disposal Facilities

- Store and consolidate the non-energetic waste at the Storage Facility (2233) or Station 312 storage magazine for energetic waste. The procedures for the proper handling and storage of hazardous waste can be found in the UTC PWR Part A Permit Application, Operation Plan and Hazardous Waste Facility Permit.

- Discard properly all wastes within proper time limits of the generation of the waste. The procedures for the discarding, labeling, marking, manifesting and transportation of waste can be found in the UTC PWR Part A and Operation Plan. Wastes shall be discussed only at approved UTC treatment, storage, disposal, and recycle facilities (TSDRF).

- Ensure that Lab Packs are properly managed per work instruction W.I. 26.06.33, *Lab Pack Management*.

- Ensure that wastes are properly transported from UTC PWR to an approved TSDRF. Each container shall be visually inspected prior to transportation to ensure that the container is properly labeled, marked, and manifested. Each manifest shall be accompanied by the appropriate Land Disposal Restriction (LDR) notification form, if required. Environmental Engineering or Waste Management Contractorshall sign and date the Uniform Hazardous Waste Manifests and forward a copy to the destination state and the generating state. Further, Environmental Engineering or Waste Management Contractor shall verify that manifests are returned from the TSDRF with proper signatures and acceptance dates. For more details regarding manifesting and LDR's see work instruction W.I. 23.06.30, *Hazardous Waste Manifest Management* and work instruction W.I. 23.06.31, *Land Disposal Restriction (LDR) Requirements*.

WASTE GENERATOR:

23. Emergency Procedures (All Waste Management Areas)

- Report and document all emergencies per work instruction W.I. 23.08.03, *Environmental Release Reporting*. Each Waste Generator shall have an up-to-date emergency plan and have necessary equipment to handle an emergency. This plan shall include:

  - A listing of emergency communications equipment such as panic alarm, phone, or two way radio capable of calling the UTC PWR Emergency Response Team (ERT). This equipment must be inspected, tested and maintained in working order.

  - A listing of emergency equipment such as fire extinguisher, fire control equipment, and spill control equipment, as appropriate for the waste management area. This equipment must be inspected, tested, maintained and documented weekly in the Waste Generator inspection log.

- The emergency procedure shall be implemented whenever there is a fire, explosion, or release of waste which has the potential to be a threat to human health or environment. This procedure shall include the immediate notification of the UTC PWR ERT per work instruction W.I. 23.08.03, *Environmental Release Reporting*.

- All spills and releases must be recorded in the Waste Generator operating log per work instruction W.I. 23.08.03, *Environmental Release Reporting*.

- All spills, releases, and residues must be cleaned up immediately.

UTC PWR ENVIRONMENTAL:

24. Facility Closure Management

- Ensure proper closure of waste management areas (units). The UTC PWR shall write a Facility Closure Plan. The closure plan identifies the steps P&W/SP shall take to implement closure of the facility.

- Following the removal of the waste management unit, line UTC PWR shall make sure that the waste container management inventory, including maps, and contingency plans, are modified as necessary. Records of the removal and closure activities shall be maintained in the UTC PWR Environmental staff files.

- Notify Cal / EPA or least 45 days prior to the date when partial or final closure of a RCRA unit is anticipated to commence.

- When conducting closure of a RCRA unit, if possible, seek to obtain clean closure, thus avoiding the necessity of post-closure care. The facility should be closed per the procedures contained in work instruction W.I. 23.06.13, *Facilities, Equipment and Device Closure and Decontamination*, as appropriate.

- Prior to amending RCRA closure or post-closure plans, provide written notification to Cal / EPA requesting a permit modification.

- Update RCRA closure and post-closure cost estimates annually to reflect the prior years inflation rate. Submit the updated cost estimates to United Technologies Corporate Office by March 1st each year. Identify any costs that were re-estimated during the prior year.

- When RCRA financial assurance documents are received from United Technologies Corporate Office (expected to occur after March 31st of each year), review the documents for accuracy and update the operating record.

UTC PWR ENVIRONMENTAL:

25. Environmental Permits/Procedures

- Maintain and update waste permits, manifests and records for permitted facilities. All records must be kept for a minimum of three (3) years.

- Provide procedures and guidelines for the proper storage and handling of wastes.

UTC PWR SAFETY & WASTE MANAGEMENT CONTRACTOR:

26. Training Requirements

- Document and update training for each employee assigned waste management responsibilities. All training records and documentation for current employees and/or former employees must be kept for at least three (3) years. The training requirements are:

  - Training shall be provided so that employees may properly conduct their job responsibilities.

  - Training shall be provided so that employees may properly respond to emergencies.

- Employees must receive waste training with annual updates prior to working with hazardous wastes. See work instruction W.I. 23.03.03, *Hazardous Waste Training Plan*, for details regarding training requirements.

- Contractors are responsible for maintaining their own employee records, training plans, and training documents. This must be kept current and available at all times for audits.

UTC PWR ENVIRONMENTAL OR WASTE MANAGEMENT COTRACTOR:

27. Hazardous Waste Reports

    1. Ensure completion and submittal to California Environmental Protection Agency (Cal/EPA) of a Hazardous Waste Report by March 1 of each even-numbered year for all hazardous waste activities from the previous year (reporting year).

    2. Ensure completion and submittal to Cal/EPA of a Facility Annual Report by March 1 (or date as specified by Cal/EPA) of each odd-numbered year for all hazardous waste activities from the previous year (reporting year).

    3. Retain Hazardous Waste Reports or Facility Annual Reports in facility per requirements found in PW Retention Plan. Retail all records for greater time periods if subject to an unresolved enforcement action.

WASTE GENERATOR – CONTRACTORS:

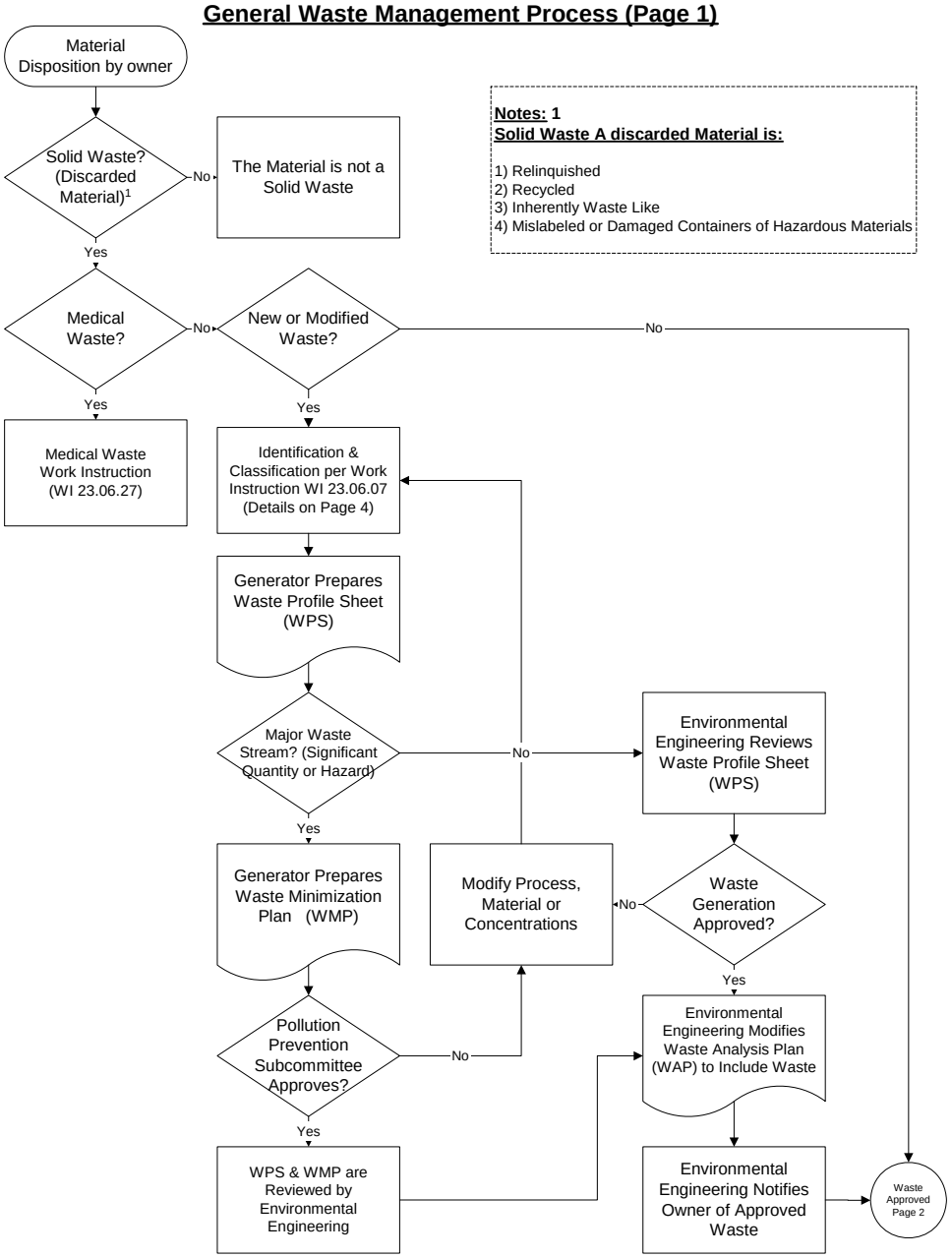
28. Contractor Waste Management

    Wastes generated from on-site contractor activities shall be managed as a UTC PWR waste. These wastes shall be managed per the requirements of this work instruction and other pertinent UTC PWR or equivalent procedures and work instructions.

    Contractors may follow their own procedures as long as those procedures are consistent with these documents fully compliant with applicable Federal, State, and Local requirements.

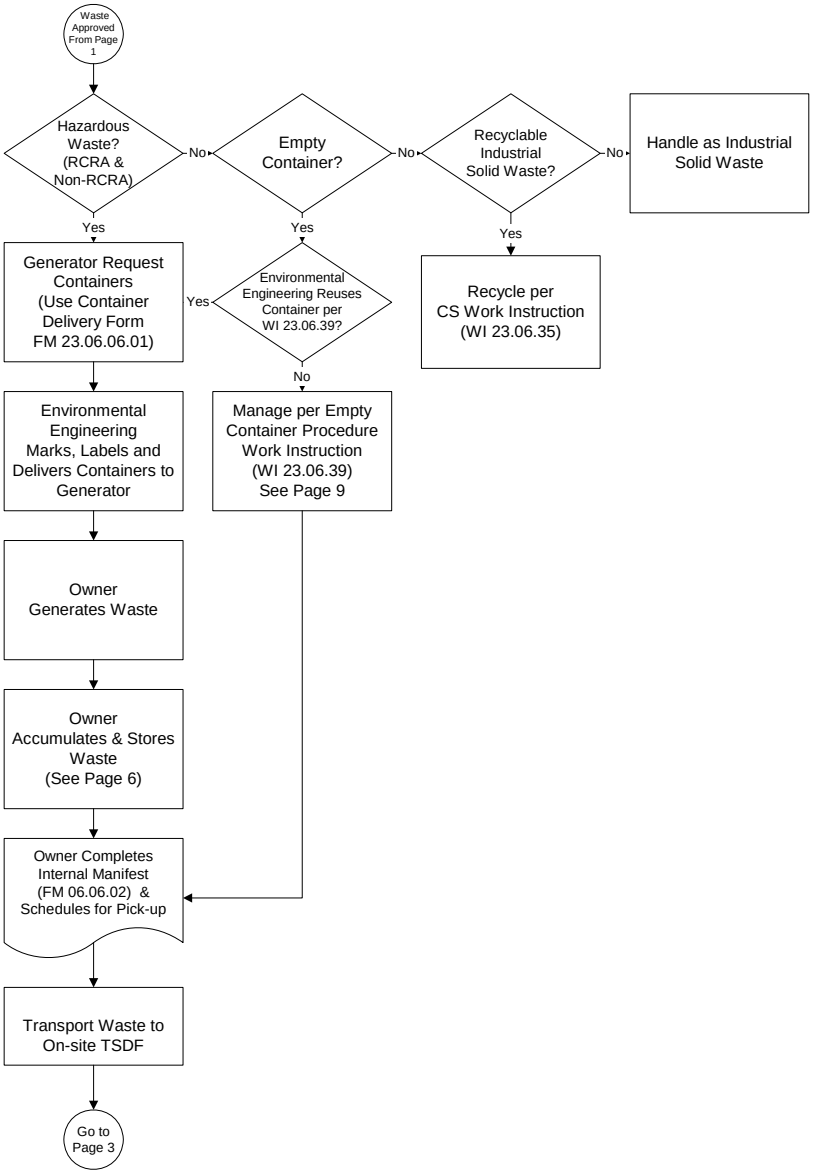
APPENDIX A
WASTE PROCESS FLOWCHART

General Waste Management Process (Page 1)

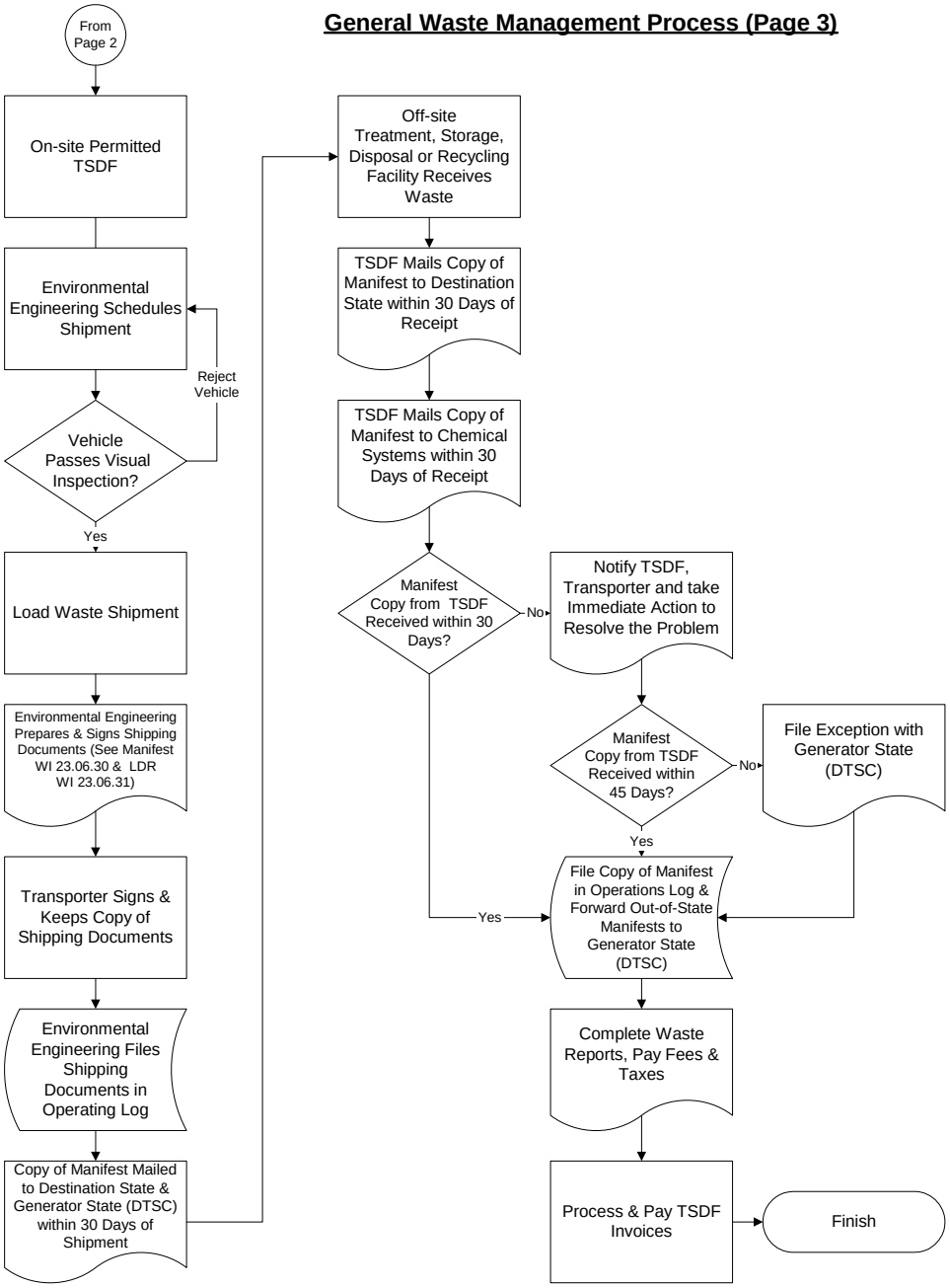


APPENDIX A (Cont'd)
WASTE PROCESS FLOWCHART

General Waste Management Process (Page 2)



APPENDIX A (Cont'd)
WASTE PROCESS FLOWCHART

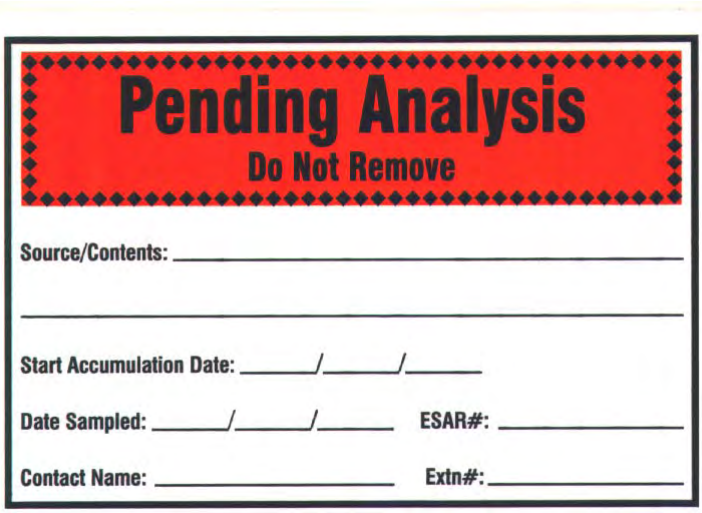


APPENDIX B
PENDING ANALYSIS LABEL

PENDING ANALYSIS LABEL

Instructions for completing the Pending Analysis Label

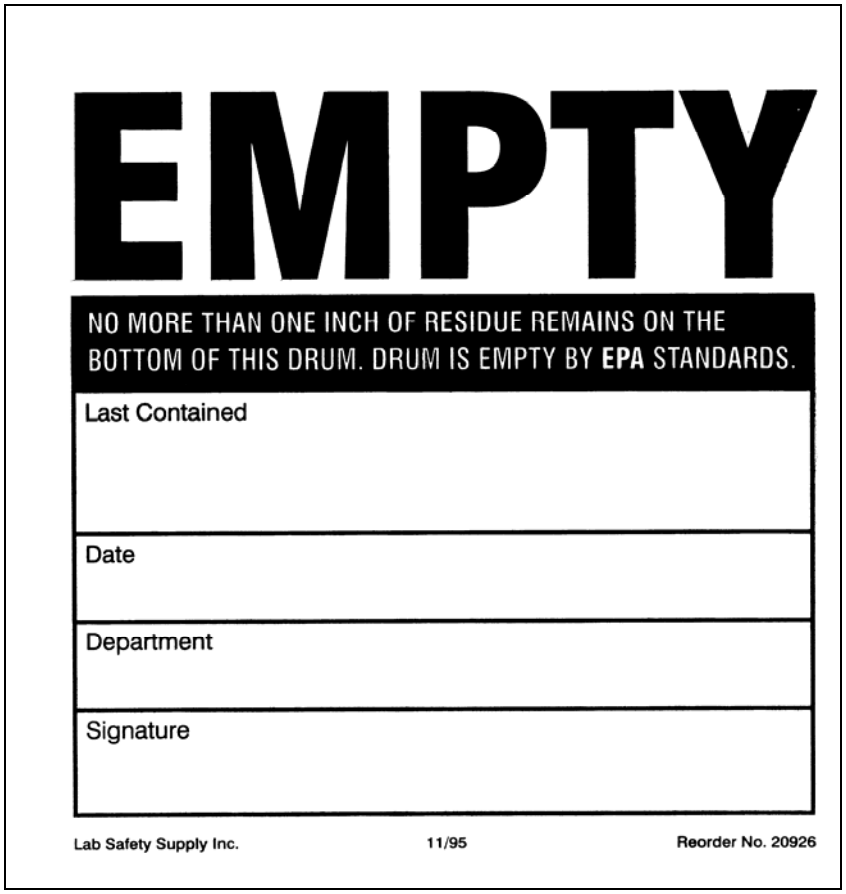
Field	Instruction
Source/Contents	Identify the contents, suspected contents, or the source of the contents of the container (i.e. water from haz mat secondary containment.)
Start Accumulation Date	Date the material was first placed into the container.
Date Sampled	Date the material was sampled.
ESAR #	The Environmental Sampling and Analysis Request Number.
Contact Name	Person to be contacted regarding questions.
Extension	Their phone number.



APPENDIX C
EMPTY CONTAINER LABEL

EMPTY LABEL
Instructions for completing Empty Label

Field	Instruction
Last Contained	Material that the container was last used to contain.
Date Emptied	Date the last of the material was removed deeming the container empty.
Contact Name	Person to be contacted regarding questions.
Extension	Their phone number.



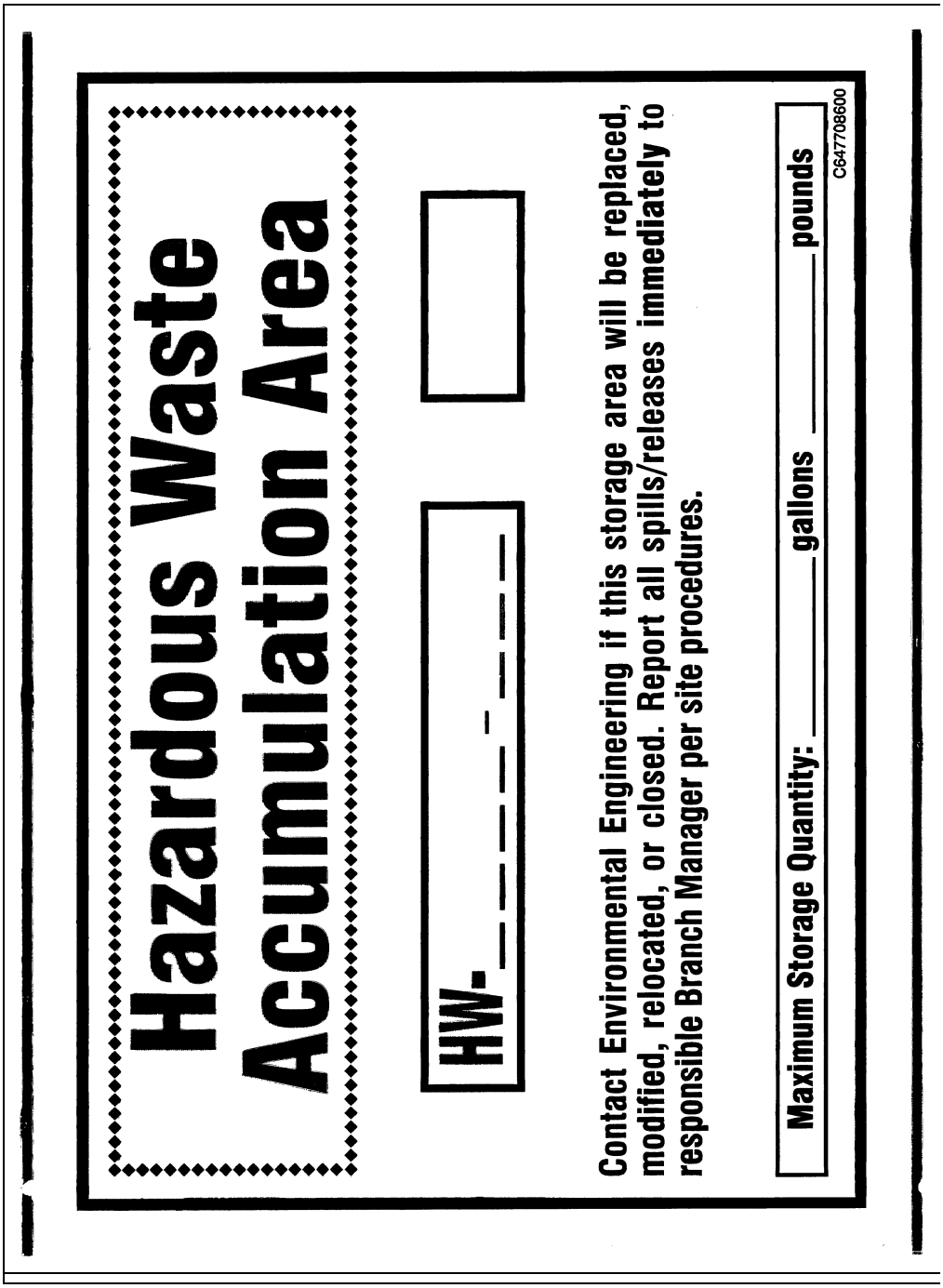
APPENDIX D
HAZARDOUS WASTE LABEL

APPENDIX E

Instructions for completing the Hazardous Material Storage Weekly Inspection Form 23.06.06.03

Field	Instruction
Month/Year	List the current month and year.
Station/Location	List the station number and location ID where materials are stored.
Reviewed By:	To be signed by the Station Supervisor when the form is completed (must be different than inspector.)
Week # - Insp.	For each week, provide the inspector's full name (name must be legible).
Week # - Badge	For each week, provide the inspector's badge number.
Week # - Date	List the full date of the inspection (e.g. 10/1/96).
Week # - Time	List the time of the inspection (e.g. 14:00 hrs).
Yes/No	For each inspection criterion, indicate if the entire storage facility is in compliance. Any "NO" response requires an entry in the Observation/Corrective Action section.
See procedures for specific definitions and management criteria.	
1	Primary containment must be securely closed and sealed to prevent spills or evaporation except when filling or removing materials. It must, at all times, be clean, free of leaks, drips, spills and in sound condition.
2	Primary containment must be resistant to and compatible with the materials being contained. Proper labels on the outside of the containment, materials segregated by compatibility classes within secondary containment.
3	All labels must be complete, legible and visible at all times. Labeling must, at a minimum, indicate the contents, warning statement and hazardous properties. Hazardous wastes must also contain the words "hazardous waste", accumulation start date, physical state, our company name and address.
4	Minimum of 30" aisle space for drums. For other containers, there must be unobstructed access for inspection.
5	Secondary containment adequate for the volume and type of materials being contained, in good condition, free of cracks, spills, debris or rainwater. Any alarms, sensors or overflow devices must be operational.
6	Emergency equipment must be operational and readily accessible including eyewashes/showers, fire extinguishers and spill kits. Spill kit must have appropriate minimum inventory and be accessible in an emergency.
7	Emergency communications (e.g. telephone, two-way radio) must be operational and readily accessible.
8	Signs including identification of area as a hazardous material storage/accumulation area, hazards/hazard classes. PPE required.
9	Flammable liquids must be bonded and grounded, bonding and grounding systems must be operational and in good condition. Additionally, flammables can only be stored/accumulated in approved safety cans, or still sealed in manufacturers containers.
10	Wastes over fifty (50) days old (from start accumulation date) should have had an IHWM submitted for pickup. There should be no wastes over sixty (60) days old (from start accumulation date.)
No. (Item #)	For each "NO" item listed in the inspection section, list the criteria number.
Observation	For each "NO" item listed, provide an explanation of findings.
Corrective Action	List associated corrective action taken for each observation item described.
Status	List the date corrective action was taken and date corrective action was completed. If corrective action is scheduled or not yet completed indicate that it is in process.

APPENDIX F
STORAGE FACILITY IDENTIFICATION LABEL



APPENDIX G
INCOMPATIBLE MATERIALS CHART

REACTIVITY GROUP NUMBER	REACTIVITY GROUP NAME
1	Acids, Mineral, Non-oxidizing
2	Acids, Mineral, Oxidizing
3	Acids, Organic
4	Alcohols & Glycols
5	Aldehydes
6	Amides
7	Amines, Aliphatic & Aromatic
8	Azo Compounds, Diazo Compounds & Hydrazines
9	Carbamates
10	Caustics
11	Cyanides
12	Dithiocarbamates
13	Esters
14	Ethers
15	Fluorides, Inorganic
16	Hydrocarbons, Aromatic
17	Halogenated Organics
18	Isocyanates
19	Ketones
20	Mercaptans & Other Organic Sulfides
21	Metals, Alkali & Alkaline Earth, Elemental
22	Metals, Other Elemental & Alloys as Powders, Vapors or Sponges
23	Metals, Other Elemental & Alloys as Sheets, Rods, Drops, Moldings, etc.
24	Metals & Metal Compounds, Toxic
25	Nitrides
26	Nitrites
27	Nitro Compounds, Organic
28	Hydrocarbons, Aliphatic, Unsaturated
29	Hydrocarbons, Aliphatic, Saturated
30	Peroxides & Hydroperoxides, Organic
31	Phenols & Crasols
32	Organophosphates, Phosphothioates, Phosphodithioates
33	Sulfides, Inorganic
34	Epoxides
101	Combustible & Flammable Materials, Miscellaneous
102	Explosives
103	Polymerizable Compounds
104	Oxidizing Agents, Strong
105	Reducing Agents, Strong
106	Water & Mixtures Containing Water
107	Water Reactive Substances

REACTIVITY CODE	CONSEQUENCES
H	Heat Generation
F	Fire
G	Non-flammable Gas Generation
GT	Toxic Gas Generation
GF	Flammable Gas Generation
E	Explosion
P	Violent Polymerization
S	Solubilization of Toxic Substances
U	May Be Hazardous But Unknown

EXAMPLE: H_{FGT} — Heat Generation, Fire, & Toxic Gas Generation

EXTREMELY REACTIVE ! DO NOT MIX WITH ANY CHEMICAL OR WASTE MATERIAL ! EXTREMELY REACTIVE !

NSCO11.PM4 - VMG 11/19/92 SAC

Figure 5-1.
Hazardous Waste Compatibility Chart

APPENDIX N

INSPECTION CHECKLISTS

INSPECTION CHECKLISTS

- Weekly Inspection - Storage Facility (2233)
- Weekly Inspection - Storage Magazine (0312)
- Waste Storage - Weekly Inspection
- Hazardous Material Storage - Weekly Inspection Form

Pratt & Whitney
A United Technologies Company

DAILY INSPECTION - STORAGE FACILITY (2233)

Week Ending _____
(Month/Day/Year)

Reviewed by: _____
(Supervisor/Station Manager – Name Must be Legible)

	Inspection Mark "N/A" box if question does not apply.	*** **Monday** Insp. _____ Date _____ Badge _____ Time _____		*** **Tuesday** Insp. _____ Date _____ Badge _____ Time _____		*** **Wednesday** Insp. _____ Date _____ Badge _____ Time _____		*** **Thursday** Insp. _____ Date _____ Badge _____ Time _____		*** **Friday** Insp. _____ Date _____ Badge _____ Time _____	
No.	N/A		Yes	No *	Yes	No *	Yes	No *	Yes	No *	Yes	No *
1	☐	Perimeter fences and gates secure and operational with applicable warning signs in place	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2	☐	Primary containment closed, in good condition, no signs of deterioration, corrosion, bulges, leaks, spills, or abnormal odors.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	☐	Primary containment compatible with material contained, properly labeled, and segregated within secondary containment.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4	☐	All labels complete and visible for inspection.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5	☐	Adequate aisle space (3 feet) between containers.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6	☐	Spill containment systems operational, in sound condition, and free of debris.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
7	☐	Emergency equipment available and in working condition.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
8	☐	Phones and communication equipment available and in working condition.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9	☐	All floor drain valves closed.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
10	☐	The waste pad area clean and acceptable with adequate aisle space.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
11	☐	Storage limits not exceeded.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

No.	Observation	Corrective Action	Status **

***** ANY "no" answers require corrective action.

** Mark box as "In Process" or show date completed. Use back of form or additional sheets, if necessary.

*** Inspectors name MUST be in full.

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A United Technologies Company

DAILY INSPECTION - STORAGE FACILITY (0312)

Week Ending _____
(Month/Day/Year)

Reviewed by: _____
(Supervisor/Station Manager – Name Must be Legible)

Inspection Mark "N/A" box if question does not apply.			*** Monday Insp. _____ _____ Badge _____ Time _____		*** Tuesday Insp. _____ _____ Badge _____ Time _____		*** Wednesday Insp. _____ _____ Badge _____ Time _____		*** Thursday Insp. _____ _____ Badge _____ Time _____		*** Friday Insp. _____ _____ Badge _____ Time _____	
No.	N/A		Yes	No *	Yes	No *	Yes	No *	Yes	No *	Yes	No *
1	☐	Perimeter fences and gates secure and operational with applicable warning signs in place	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2	☐	Primary containment closed, in good condition, no signs of deterioration, corrosion, bulges, leaks, spills, or abnormal odors.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	☐	Primary containment compatible with material contained, properly labeled, and segregated within secondary containment.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4	☐	All labels complete and visible for inspection.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5	☐	Adequate aisle space (3 feet) between containers.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6	☐	Spill containment systems operational, in sound condition, and free of debris.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
7	☐	Emergency equipment available and in working condition.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
8	☐	Communication equipment available and in working condition.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9	☐	The waste pad area clean and acceptable with adequate aisle space.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
10	☐	Storage limits not exceeded.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

No.	Observation	Corrective Action	Status **

* ANY "no" answers require corrective action.

** Mark box as "In Process" or show date completed. Use back of form or additional sheets, if necessary.

*** Inspectors name Must be in full.

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HAZARDOUS WASTE STORAGE — WEEKLY INSPECTION

MONTH/YEAR: _____ **STATION/LOCATION:** _____ **REVIEWED BY:** _____
(One form for each storage location) (Supervisor/Station Manager – Name Must be Legible)

Inspection Criteria		Week 1			Week 2			Week 3			Week 4			Week 5		
Insp: (Full Name)																
Badge:																
Date:																
Time:																
#		Yes	No*	N/A	Yes	No*	N/A	Yes	No*	N/A	Yes	No*	N/A	Yes	No*	N/A
1	Primary containment closed, in good condition, no signs of deterioration, corrosion, bulges,, leaks, spills, or abnormal odors.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2	Primary containment compatible with material contained, properly labeled and segregated within secondary containment.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	All labels complete and visible for inspection.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4	Adequate aisle space between containers.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5	Secondary containment adequate, overflow, and/or spill containment systems operational, in sound condition and free of liquids and debris.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6	Emergency equipment available and in working condition.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
7	Phones and/or communication equipment available and in working condition.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
8	Area properly identified as hazardous materials or waste storage/ accumulation area.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9	Flammable stored in approved containers. Flammable liquid containers properly bonded and grounded and/or is equipment available and operational for bonding and grounding of flammable liquids.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
10	All explosive waste greater than 30 days and non-explosive waste greater than 60 days from the start accumulation date have been manifested for pickup and shipped to Environmental.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
11	Storage limits not exceeded. (Quantity Limits)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
12	Properly completed Internal Manifest is attached to the container. The Internal Manifest is properly marked with the first date waste was added, each subsequent date waste was added and the Full/Final date waste was added to the container.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

#	Observation	Corrective Action	Status

Mark Box "N/A" if Question Does Not Apply

* All "NO" replies require corrective action.

The status (or date completed) must be indicated for all corrective actions in process.

Pratt & Whitney
A United Technologies Company

HAZARDOUS MATERIAL STORAGE — WEEKLY INSPECTION FORM

Month/Year: _____ Station/Location: _____ Reviewed By: _____

Inspection Criteria		Insp: (Full Name)														
		Badge:														
		Date:														
		Time:														
			Week 1			Week 2			Week 3			Week 4			Week 5		
#			Yes	No*	N/A	Yes	No*	N/A	Yes	No*	N/A	Yes	No*	N/A	Yes	No *	N/A
1	Primary containment closed, in good condition, no signs of deterioration, corrosion, bulges, leaks, spills, or abnormal odors.		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2	Primary containment compatible with materials contained, properly labeled and segregated and with adequate secondary containment.		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	All labels complete and visible for inspection.		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4	Adequate aisle space between containers.		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5	Secondary containment, overflow, and/or spill containment systems operational, in sound condition and free of liquids and debris.		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6	Emergency equipment available and in working condition.		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
7	Phones and/or communication equipment available and in working condition.		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
8	Area properly identified as hazardous materials or waste storage/accumulation area.		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9	Flammable liquid containers are properly bonded and grounded and/or equipment available and operational for bonding and grounding of flammable liquids.		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

#	Observation	Corrective Action	Status

Mark box N/A if question does not apply. *** All NO replies require corrective action.** **The status (or date completed) must be indicated for all corrective actions in process.**

Pratt & Whitney
A United Technologies Company

HAZARDOUS MATERIAL STORAGE — WEEKLY INSPECTION FORM

Instructions for Completing the Hazardous Material Storage Weekly Inspection Form

Field	Instruction
Month/Year	List the current month and year.
Station/Location	List the station number and location ID where materials are stored.
Reviewed By:	To be signed by the Station Supervisor when the form is completed (must be different than inspector.)
Week # - Inspector	For each week, provide the inspector's full name.
Week # - Badge	For each week, provide the inspector's badge number.
Week # - Date	List the full date of the inspection (e.g. 10/1/96.)
Week # - Time	List the time of the inspection (e.g. 14:00 hours.)
Yes/No	For each inspection criterion, indicate if the entire storage facility is in compliance. Any "NO" response requires an entry in the Observation/Corrective Action section.
1	
2	
3	
4	Minimum of 30" aisle space for drums.
5	
6	Includes eyewashes/showers, fire extinguishers, spill kit has appropriate inventory.
7	
8	
9	
10	
# (Item #)	For each "NO" item listed in the Inspection section, list the criteria number.
Observation	For each "NO" item listed, provide an explanation of findings.
Corrective Action	List associated corrective action taken for each observation item described.
Status	List the date corrective action was taken and date corrective action was completed. If corrective action is scheduled or not yet completed indicate that it is in process.

APPENDIX O

UNIFORM HAZARDOUS WASTE MANIFEST AND EXAMPLES OF LDR NOTIFICATION FORMS

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	**4. Manifest Tracking Number**

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1.					
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____

Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number	22. Page	**23. Manifest Tracking Number**

24. Generator's Name

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Pratt & Whitney
A United Technologies Company

P&W LDR Notification Form

Section I: Generator Information

Generator Name: United Technologies
Address: 600 Metcalf Road
San Jose, CA 95138
Contact (Print) :

EPA Generator I.D. No.: CAD 001705235
EPA Manifest Doc. No.: CAD 001705235/
State Manifest Doc. No.:
Date:

Section II: Applicable LDR Standards specific to manifest listed in Section I.

(Fill out the following section specific for each manifest line item. If attachments or references are indicated, fill out applicable attachment and/or referenced section.)

The following referenced wastes are restricted wastes that are prohibited from land disposal per 40 CFR 268 unless otherwise specified in Section III of this notification. This notification is in accordance with 40 CFR 268.7.

Manifest Line Item(s)	**P&W ID Or Vendor Code**	**EPA Code**	**Subcategory** (if applicable)	**Treatability Group** Enter WW or NWW Wastewater/Non wastewater	**Other** Enter ref. letter/ #(s). from Section III	**F001-F009** Enter ref. #(s) specified on Attachment #1 (See Note 1)	**Underlying Hazardous Constituents** Enter ref. #(s) specified on Attachment #2

Notes:

1. Applicable underlying hazardous constituents do not have to be repeated in this section of the table.
2. Where more than one treatment standard applies to a waste constituent, and one treatment standard is most stringent, only the most stringent standard is addressed by the Treatment Storage and Disposal Facility.
3. If additional space is required for Section II, attach a " Section II Continuation Sheet " and number page accordingly.

Section III: Certifications and "other" treatment standards referenced from Section II.

(Check appropriate reference letters for all certifications or treatment standards referenced in Section II.)

☐ A. This waste is one of the following wastes to be treated in accordance with the standards in 40 CFR 268.40, except A. 1., which is not subject to the standards, as noted below. Underlying Hazardous Constituents are not required to be identified for the waste.

1. Not subject to LDR Treatment Standard requirements per 40 CFR 268.1 (c): 1) "D" waste intended for treatment in a CWA or equivalent system (does not include D003 reactive cyanides or waste with a specified treatment method other than DEACT), or 2) "D" waste de-characterized prior to injection into a Class I SDWA injection well.
2. D001 (High TOC Liquid) characteristic waste.
3. D001 characteristic waste to be treated by CMBST or RORGS.
4. F010-39, K, U, or P code listed waste.
5. D003 characteristic waste Reactive Sulfides, Reactive Ordinance and Reactive Cyanides Subcategories.
6. D012-D017 wastewater characteristic wastes.

☐ B. This waste is a **F001 to F005 Spent Solvent or an F006 to F009 Electroplating Waste** whose constituents of concern are listed in Attachment #1. Underlying constituents for these wastes are not required to be identified unless the waste is also a characteristic waste covered in C. below.

☐ C. This waste is one of the following wastes that are to be treated in accordance with the standards in 40 CFR 268.40 and the specified underlying hazardous constituents standards in 40 CFR 268.48 summarized in Attachment #2:

1. D001 characteristic wastes that are managed in non-CWA or non-CWA equivalent system except high TOC liquid or waste to be treated by RORGS or CMBST.
2. D002 characteristic wastes that are managed in non-CWA/non-CWA equivalent/non-Class I SWDA systems.
3. D004-D011 characteristic wastes that are managed in non-CWA/non-CWA equivalent/non-Class I SWDA systems.
4. D018-D043 characteristic wastes that are managed in non-CWA/non-CWA equivalent/non-Class I SWDA systems.
5. D003 characteristic waste Explosives and Other Reactive, Subcategories, and Water Reactive Subcategory, Non-wastewaters.
6. D012-D017 non-wastewater characteristic wastes.

☐ D. **Waste Meets Treatment Standards:** In accordance with 40 CFR 268.7(a)(2), this restricted waste may be land disposed without further treatment. The following certification applies; "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

☐ E. This waste is a **California List Waste** as per 40 CFR 268.32 or RCRA section 3004(d). The following constituents and standards apply to referenced letter and number from Section II; ref #

1. Hazardous Waste Liquid with Nickel $\geq$ 134 mg/l.
2. Hazardous Waste Liquid with PCBs ($\geq$50 ppm) INCIN per 40 CFR 268.42(a)(1).
3. Hazardous Waste Liquid with Thallium (liquid) $\geq$ 130 mg/l.
4. Halogenated Organic Compounds (liquids or solids) $\geq$ 1000 mg/kg [40 CFR 266 App. III] INCIN per 40 CFR 268.42(a)(2).

☐ F. **Lab Pack Appendix IV:** "I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack does not contain any wastes identified at 40 CFR 268.42(c)(2). I am aware that

there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."

☐ G. The waste specified is **Hazardous Debris** subject to the alternative treatment standards of 40 CFR 268.45, Table 1.

☐ H. This waste is **NOT a Hazardous Waste** as defined by 40 CFR Part 261 and is not restricted per 40 CFR 268.

☐ I. A **Variance Notification** applies to this waste under 40 CFR 268.5, 268.6, and/or Subpart C. A letter is attached to this notification explaining specific details of variance.

Section IV: Signature to notification / certification(s).

Waste analysis is attached where available, otherwise the information herein is based upon my thorough knowledge of the waste(s). **"I hereby certify that all information submitted in this document is complete and accurate to the best of my knowledge and information."**

Name (print) : _____ Title : _____

Signature: _____ Date : _____

ATTACHMENT #1

P&W LDR
Spent Solvent Wastes
(F001 - F005)

	Ref #	Constituent
☐	1	Acetone
☐	2	Benzene
☐	3	n-Butyl alcohol
☐	4	Carbon disulfide (1) for Non-wastewaters
☐	5	Carbon tetrachloride
☐	6	Chlorobenzene
☐	7	o-Cresol
☐	8	m-Cresol
☐	9	p-Cresol
☐	10	Cresol mixed isomers (Cresylic acid)
☐	11	Cyclohexanone (1) for Non-wastewaters
☐	12	o-Dichlorobenzene
☐	13	2-Ethoxyethanol (2)
☐	14	Ethyl acetate
☐	15	Ethyl benzene
☐	16	Ethyl ether
☐	17	Isobutyl alcohol
☐	18	Methanol (1) for Non-wastewaters
☐	19	Methylene chloride
☐	20	Methyl ethyl ketone
☐	21	Methyl isobutyl ketone
☐	22	Nitrobenzene
☐	23	2-Nitropropane (3)
☐	24	Pyridine
☐	25	Tetrachloroethylene
☐	26	Toluene
☐	27	1,1,1-Trichoroethane
☐	28	1,1,2-Trichloroethane
☐	29	1,1,2-Trichloro-1,2,2-trifluoroethane
☐	30	Trichloroethylene
☐	31	Trichloromonofluoromethane
☐	32	Xylenes (mixed isomersl)

Notes: (1) indicates F003 and/or F005 solvent wastes that contain any combination of one or more of the following three solvents as the only listed F001-5 solvents: carbon disulfide, cyclohexanone, and/or methanol.

(2) indicates F005 solvent waste containing 2-Ethoxyethanol as the only listed F001-5 solvent.

(3) indicates F005 solvent waste containing 2-Nitropropane as the only listed F001-5 solvent.

ATTACHMENT #1 (Continued)

P&W LDR
Electroplating Wastes
(F006 - F009)

	Ref #	Constituent
☐	33	Cadmium
☐	34	Chromium (total)
☐	35	Cyanides (total)
☐	36	Cyanides (amenable)
☐	37	Lead
☐	38	Nickel
☐	39	Silver

ATTACHMENT #2
P&W LDR
Underlying Hazardous Constituents

	Ref #	Constituent		Ref #	Constituent
☐	1	Acenaphthylene	☐	55	Cyclohexanone
☐	2	Acenaphthene	☐	56	1,2-Dibromo-3-chloropropane
☐	3	Acetone	☐	57	Ethylene dibromide (1,2-Dibromoethane)
☐	4	Acetonitrile	☐	58	Dibromomethane
☐	5	Acetophenone	☐	59	2,4-D (2,4-Dichlorophenoxyacetic acid)
☐	6	2-Acetylaminofluorene	☐	60	o,p'-DDD
☐	7	Acrolein	☐	61	p,p'-DDD
☐	8	Acrylamide	☐	62	o,p'-DDE
☐	9	Acrylonitrile	☐	63	p,p'-DDE
☐	10	Aldrin	☐	64	o,p'-DDT
☐	11	4-Aminobiphenyl	☐	65	p,p'-DDT
☐	12	Aniline	☐	66	Dibenz(a,h)anthracene
☐	13	Anthracene	☐	67	Dibenzo(a,e) pyrene
☐	14	Aramite	☐	68	m-Dichlorobenzene
☐	15	alpha-BHC	☐	69	o-Dichlorobenzene
☐	16	beta-BHC	☐	70	p-Dichlorobenzene
☐	17	delta-BHC	☐	71	Dichlorodifluoromethane
☐	18	gamma-BHC	☐	72	1,1-Dichloroethane
☐	19	Benzene	☐	73	1,2-Dichloroethane
☐	20	Benz(a)anthracene	☐	74	1,1-Dichloroethylene
☐	21	Benzal chloride	☐	75	trans-1,2-Dichloroethylene
☐	22	Benzo(b)fluoranthene	☐	76	2,4-Dichlorophenol
☐	23	Benzo(k)fluoranthene	☐	77	2,6-Dichlorophenol
☐	24	Benzo(g,h,i)perylene	☐	78	1,2-Dichloropropane
☐	25	Benzo(a)pyrene	☐	79	cis-1,3-Dichloropropylene
☐	26	Bromodichloromethane	☐	80	trans-1,3-Dichloropropylene
☐	27	Bromomethane (methyl bromide)	☐	81	Dieldrin
☐	28	4-Bromophenyl phenyl ether	☐	82	Diethyl phthalate
☐	29	n-Butyl alcohol	☐	83	2,4-Dimethyl phenol
☐	30	Butyl benzyl phthalate	☐	84	Dimethyl phthalate
☐	31	2-sec-Butyl-4,6-dinitrophenol (dinoseb)	☐	85	Di-n-butyl phthalate
☐	32	Carbon disulfide	☐	86	1,4-Dinitrobenzene
☐	33	Carbon tetrachloride	☐	87	4,6-Dinitro-o-cresol
☐	34	Chlordane (alpha and gamma isomers)	☐	88	2,4-Dinitrophenol
☐	35	p-Chloroaniline	☐	89	2,4-Dinitrotoluene
☐	36	Chlorobenzene	☐	90	2,6-Dintirotoluene
☐	37	Chlorobenzilate	☐	91	Di-n-octyl phthalate
☐	38	2-Chloro-1,3-butadiene	☐	92	p-Dimethylaminoazobenzene
☐	39	Chlorodibromomethane	☐	93	Di-n-propylnitrosoamine
☐	40	Chloroethane	☐	94	1,4-Dioxane
☐	41	bis(2-Chloroethoxy)methane	☐	95	Diphenylamine
☐	42	bis(2-Chloroethyl)ether	☐	96	Diphenylnitrosamine
☐	43	Chloroform	☐	97	1,2-Diphenylhydrazine
☐	44	bis(2-Chloroisopropyl)ether	☐	98	Disulfoton
☐	45	p-Chloro-m-cresol	☐	99	Endosulfan I
☐	46	2-Chloroethyl vinyl ether	☐	100	Endosulfan II
☐	47	Chloromethane (Methyl chloride)	☐	101	Endosulfan sulfate
☐	48	2-Chloronaphthalene	☐	102	Endrin
☐	49	2-Chlorophenol	☐	103	Endrin aldehyde
☐	50	3-Chloropropylene	☐	104	Ethyl acetate
☐	51	Chrysene	☐	105	Ethyl cyanide (Propanenitrile)
☐	52	o-Cresol	☐	106	Ethyl benzene
☐	53	m-Cresol	☐	107	Ethyl ether
☐	54	p-Cresol	☐	108	bis(2-Ethylhexyl)phthalate

ATTACHMENT #2 (Continued)

P&W LDR

Underlying Hazardous Constituents

	Ref #	Constituent		Ref #	Constituent		Ref #	Constituent
☐	109	Ethyl methacrylate	☐	159	Pentachlordibenzo-p-dioxins (PeCDDs)	☐	209	Mercury (all others)
☐	110	Ethylene oxide	☐	160	Pentachlorodibenzofurans (PeCDFs)	☐	210	Nickel
☐	111	Famphur	☐	161	Pentachloroethane	☐	211	Selenium
☐	112	Fluoranthene	☐	162	Pentachloronitrobenzene	☐	212	Silver
☐	113	Fluorene	☐	163	Pentachlorophenol	☐	213	Sulfide
☐	114	Heptachlor	☐	164	Phenacetin	☐	214	Thallium
☐	115	Heptachlor epoxide	☐	165	Phenanthrene	☐	215	Vanadium
☐	116	Hexachlorobenzene	☐	166	Phenol	☐	216	A2213
☐	117	Hexachlorobutadiene	☐	167	Phorate	☐	217	Aldicarb Sulfone
☐	118	Hexachlorocyclopentadiene	☐	168	Phthalic acid	☐	218	Barban
☐	119	Hexachlorodibenzo-p-dioxins	☐	169	Phthalic anhydride	☐	219	Bendiocarb
☐	120	Hexachlorodibenzofurans	☐	170	Pronamide	☐	220	Bendiocarb Phenol
☐	121	Hexachloroethane	☐	171	Pyrene	☐	221	Benomyl
☐	122	Hexachloropropylene	☐	172	Pyridine	☐	222	Butylate
☐	123	Indeno(1,2,3-c,d)pyrene	☐	173	Safrole	☐	223	Carbaryl
☐	124	Iodomethane	☐	174	Silvex (2,4,5-TP)	☐	224	Carbendazim
☐	125	Isobutyl alcohol (Isobutanol)	☐	175	2,4,5-Trichlorophenoxyacetic acid	☐	225	Carbofuran
☐	126	Isodrin	☐	176	1,2,4,5-Tetrachlorobenzene	☐	226	Carbofuran phenol
☐	127	Isosafrole	☐	177	Tetrachlorodibenzo-p-dioxins (TCDDs)	☐	227	Carbosulfan
☐	128	Kepone	☐	178	Tetrachlorodibenzofurans (TCDFs)	☐	228	m-Cumenyl methylcarbamate
☐	129	Methacrylonitrile	☐	179	1,1,1,2-Tetrachloroethane	☐	229	Cycloate
☐	130	Methanol	☐	180	1,1,2,2-Tetrachloroethane	☐	230	Diethylene glycol, dicarbamate
☐	131	Methapyrilene	☐	181	Tetrachloroethylene	☐	231	Dimetilan
☐	132	Methoxychlor	☐	182	2,3,4,6-Tetrachlorophenol	☐	232	Dithiocarbamates (Total)
☐	133	3-Methylcholanthrene	☐	183	Toluene	☐	233	EPTC
☐	134	4,4-Methylene bis(2-chloroaniline)	☐	184	Toxaphene	☐	234	Formetanate hydrochloride
☐	135	Methylene chloride	☐	185	Tribromomethane (Bromoform)	☐	235	Formparanate
☐	136	Methyl ethyl ketone	☐	186	1,2,4-Trichlorobenzene	☐	236	3-Iodo-2-propynyl n-butylcarbamate
☐	137	Methyl isobutyl ketone	☐	187	1,1,1-Trichloroethane	☐	237	Isolan
☐	138	Methyl methacrylate	☐	188	1,1,2-Trichloroethane	☐	238	Methiocarb
☐	139	Methyl methansulfonate	☐	189	Trichloroethylene	☐	239	Mehomyl
☐	140	Methyl parathion	☐	190	Trichloromonofluoromethane	☐	240	Methocarb
☐	141	Naphthalene	☐	191	2,4,5-Trichlorophenol	☐	241	Mexacarbate
☐	142	2-Naphthylamine	☐	192	2,4,6-Trichlorophenol	☐	242	Molinate
☐	143	o-Nitroaniline	☐	193	1,2,3-Trichloropropane	☐	243	Oxamyl
☐	144	p-Nitroaniline	☐	194	1,1,2-Trichloro-1,2,2-trifluoroethane	☐	244	Pebulate
☐	145	Nitrobenzene	☐	195	tris-(2,3-Dibromopropyl) phosphate	☐	245	o-Phenylenediamine
☐	146	5-Nitro-o-toluidine	☐	196	Vinyl chloride	☐	246	Physostigimine
☐	147	o-Nitrophenol	☐	197	Xylenes (Sum of o-, m-, p-xylene)	☐	247	Physostigimine salisylate
☐	148	p-Nitrophenol	☐	198	Antimony	☐	248	Promecarb
☐	149	N-Nitrosodiethylamine	☐	199	Arsenic	☐	249	Propham
☐	150	N-Nitrosodimethylamine	☐	200	Barium	☐	250	Propoxur
☐	151	N-Nitroso-di-n-butylamine	☐	201	Beryllium	☐	251	Prosulfocarb
☐	152	N-Nitrosomethylethylamine	☐	202	Cadmium	☐	252	Thiodicarb
☐	153	N-Nitrosomorpholine	☐	203	Chromium (total)	☐	253	Thiophanate-methyl
☐	154	N-Nitrosopiperidine	☐	204	Cyanides (total)	☐	254	Tirpate
☐	155	N-Nitrosopyrrolidine	☐	205	Cyanides (amenable)	☐	255	Triallate
☐	156	Parathion	☐	206	Fluoride	☐	256	Triethylamine
☐	157	PCBs Total	☐	207	Lead	☐	257	Vernolate
☐	158	Pentachlorobenzene	☐	208	Mercury (non-WW from retort)			

Section II Continuation Sheet

Manifest Line Item(s)	**P&W ID Or Vendor Code**	**EPA Code**	**Subcategory** (if applicable)	**Treatability Group** Enter WW or NWW Wastewater/Non wastewater	**Other** Enter ref. letter/ #(s). from Section III	**F001-F009** Enter ref. #(s) specified on Attachment #1 (See Note 1)	**Underlying Hazardous Constituents** Enter ref. #(s) specified on Attachment #2

Notes:

1. Applicable underlying hazardous constituents do not have to be repeated in this section of the table.
2. Where more than one treatment standard applies to a waste constituent, and one treatment standard is most stringent, only the most stringent standard addressed by the Treatment, Storage and Disposal Facility.

Section III (Alternate): Certifications and "other" treatment standards referenced from Section II. (Check appropriate reference letters for all certifications or treatment standards referenced in Section II.)

☐ J. This waste is one of the wastes that has been be treated in accordance with the standards in 40 CFR 268.40 to remove hazardous characteristics, but is to be treated to the specified underlying hazardous constituents standards in 40 CFR 268.48 summarized in Attachment #2:

- D001 characteristic wastes that are managed in non-CWA/non-CWA equivalent/non-Class I SWDA systems except high TOC liquid or waste to be treated by RORGS or CMBST
- D002 characteristic wastes that are managed in non-CWA/non-CWA equivalent/non-Class I SWDA systems
- D012-D017 non-wastewater characteristic wastes
- D018-D043 non-wastewater and wastewater characteristic wastes that are managed in non-CWA system/non-CWA equivalent system/non-Class I SWDA systems
- D003 characteristic waste Explosives and Other Reactives, Subcategories, and Water Reactive Subcategory, Non-wastewaters.

The following certification applies:

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This de-characterized waste contains underlying constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Section IV (Alternate): Signature to notification / certification(s).

Waste analysis is attached where available, otherwise the information herein is based upon my thorough knowledge of the waste(s).

"I hereby certify that all information submitted in this document is complete and accurate to the best of my knowledge and information."

Name (print): _____ Title : _____

Signature: _____ Date : _____

Section V.(California Certifications)

☐	**California Certification of Wastes Meeting the Land Disposal Treatment Standards:** As required by CCR 66268.7(a)(2), the following certification is a made for these restricted wastes I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification, that the waste complies with the treatment standards specified in CCR Title 22, division 4.5, chapter 18, article 4 and article 11 and all applicable prohibitions set forth in CCR Title 22, section 66268.32 or RCRA section 3004(d) (42 U.S.C. section 6924(d)). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

☐	**Certification of California Lab Pack Waste:** As required by CCR 66268.7(a)(8), the following certification is made for these restricted wastes: I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes which have not been excluded under Appendix IV to chapter 18 or solid wastes not subject to regulation under chapter 11 of division 4.5, Title 22, CCR. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

Section VI: Signature to Certifications(s)

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support these certifications. I believe that the information I submitted is true, accurate and complete.

Name (Print):		**Title:**	
Signature:		**Date:**	

APPENDIX P

SANTA CLARA COUNTY LAND USE PERMITS

20 West Rosa Street
San Jose, California

November 18, 1959

U S E P E R M I T

for: Establishment and maintenance of a research, development, and testing center for rocket propellants and rocket propulsion systems, including necessary appurtenant and accessory uses thereto.

location: An approximately 3,100 acre parcel lying in the Shingle Valley between the southerly terminus of San Felipe Road and Anderson Lake.

applicant: UNITED RESEARCH CORPORATION OF MENLO PARK

Said applicant is hereby granted a use permit for said use under the provisions of Section 34 of the Zoning Ordinance. This grant is made pursuant to the application on file in the office of the Planning Commission, and is subject to the following conditions:

1. The interests of the University of California Lick Observatory be respected with regard to:

   a. The nature and placement of lights.
   b. The time of testing in the event of winds directed toward the observatory.

2. The interests of the Santa Clara Valley Water Conservation District be respected as follows:

   a. Excavation or related activities would be designed and performed in such a manner that sediments from such excavation could not be carried into Anderson Reservoir from runoff in the watershed area.
   b. The research activities be regulated so that none of the waters flowing into Anderson Reservoir shall become polluted.

3. There shall be no testing of nuclear engines.

4. There shall be no intentional detonation of high explosives.

Pursuant to Resolution No. 4317 of the County of Santa Clara Planning Commission, State of California, passed and adopted the 18th day of November, 1959.

Woodbridge Marshall
Secretary of the Planning Commission

FILE NO. [illegible]

PLANNING COMMISSION RESOLUTION NO. 7778
County of Santa Clara, State of California

WHEREAS, United Aircraft Corporation (formerly referred to as United Research Corporation of Menlo Park) has applied for an Amendment to Use Permit No. 173.2044 to add a fabrication center to the uses now permitted under said Use Permit; and

WHEREAS, the Santa Clara County Planning Commission has held a public hearing on said application;

NOW, THEREFORE, BE IT RESOLVED by the Santa Clara County Planning Commission that it does hereby find that

a) the proposed uses of the property are essential or desirable to the public convenience or welfare; and
b) the proposed uses will not impair the integrity and character of the zoning district; and
c) the proposed uses would not be detrimental to public health, safety or general welfare; and
d) the proposed uses of the property are in harmony with the various elements or objectives of the general plan and the purposes of the Zoning Ordinance.

provided the conditions as set forth below are added to the Use Permit.

BE IT FURTHER RESOLVED that Use Permit No. 173.2044 granted November 18, 1959, is hereby amendment to read as follows:

U S E P E R M I T

For: Establishment and maintenance of a research, development and testing center for rocket propellents and rocket propulsion systems, including appurtenant and accessory uses thereto, and establishment and maintenance of fabrication facilities for manufacture of subject products for removal from the subject property for purposes other than research, development and/or testing.

Location: An approximately 3,100 acre parcel lying in the Shingle Valley between the southerly terminus of San Felipe Road and Anderson Lake.

Applicant: United Aircraft Corporation

Said applicant is hereby granted a Use Permit for said uses under the provisions of the Zoning Ordinance of the County of Santa Clara. This grant is made pursuant to the application on file in the office of the Planning Commission and is subject to the following conditions:

1. The interests of the University of California Lick Observatory be respected with regard to:

   a. The nature and placement of lights.
   b. The time of testing in the event of winds directed toward the observatory.

2. The interests of the Santa Clara Valley Water Conservation District be respected as follows:

   a. Excavation or related activities would be designed and performed in such a manner that sediments from such excavation could not be carried into Anderson Reservoir from runoff in the watershed area.
   b. The research activities be regulated so that none of the waters flowing into Anderson Reservoir shall become polluted.

3. There shall be no testing of nuclear engines.

4. There shall be no intentional detonation of high explosives.

5. There shall be no use of the subject property as a site for the fabrication of rocket propellents or rocket propulsion systems that are to be removed from the premises for purposes other than research, development and/or testing unless and until permittee has entered into an agreement with the County of Santa Clara or its successor, which agreement shall provide as follows:

   a. That permittee will cooperate with the Department of Public Works in a study to determine the adequacy of access roads and routes between the subject property and a State highway. Permittee shall furnish the county with information as to its present and future traffic requirements in order that the location and design of adequate access roads may be determined.
   b. That if it be determined by the Department of Public Works from data developed by the study referred to in Condition No. 5a that the use of the subject property hereby authorized reasonably requires substantial improvement of an existing access road or the establishment of an additional access road, then in that event permittee must participate in the payment of the initial costs of such improvements reasonably required to such an existing access road or must participate in the payment of the initial cost reasonably required to establish such an additional access road, in either instance participation in such cost is limited by the amount thereof not assumed by government or not properly chargeable to others. In determining the proper extent of such participation by permittee, factors to

be considered shall include present and prospective uses of said access road by permittee, its employees and suppliers as compared to such use of said access road by the general public.

6. Upon the execution of the agreement described in Condition No. 5, permittee shall be privileged to construct additional facilities for the purpose of fabrication, as hereinafter defined, only along any of the existing interior roads on the subject property, said roads and their location are shown upon Exhibit "A" attached hereto. Permittee shall not construct any facilities for fabrication purposes upon the subject property without both architectural and site approval first had and obtained under the procedures provided by applicable zoning ordinances. For the purposes of this condition, "fabrication" shall be defined and deemed to be the manufacture of rocket propellants or rocket propulsion systems for removal from the subject property for purposes other than research, development or testing.

Pursuant to Resolution No. 4817 of the County of Santa Clara Planning Commission, State of California, passed and adopted the 18th day of November, 1959, and modified by Resolution No. 7778 of the County of Santa Clara Planning Commission, passed and adopted the 4th day of December, 1963, by the following roll call vote:

AYES: QUINN, REID, STELLING, FLETCHER, LESTER
NOES: NONE
ABSENT: NOONAN, MIRASSOU

John S. Haas, Secretary

File No. 173.2044

PLANNING COMMISSION RESOLUTION NO. 9238
COUNTY OF SANTA CLARA, STATE OF CALIFORNIA

WHEREAS, United Aircraft Corporation (formerly referred to as United Research Corporation of Menlo Park) has applied for an Amendment to Use Permit No. 173.2044, as amended, to permit, in addition to the uses presently provided, the establishment and maintenance of facilities for the manufacture, sale and delivery, including appurtenant and accessory uses thereto, of additional industrial products within a portion of the subject location, such additional uses to be of such character as would be permissible without an additional Use Permit in an M-2 commercial-industrial Zoning District under the Zoning Ordinances of the County of Santa Clara, State of California; and

WHEREAS, the County of Santa Clara Planning Commission has held a public hearing on said application;

NOW, THEREFORE, BE IT RESOLVED by the County of Santa Clara Planning Commission that it does hereby find that:

a) the proposed uses of the property are essential or desirable to the public convenience or welfare; and

b) the proposed uses will not impair the integrity and character of the zoning district; and

c) the proposed uses would not be detrimental to public health, safety or general welfare; and

d) the proposed uses of the property are in harmony with the various elements or objectives of the general plan and the purposes of the Zoning Ordinance,

provided the conditions as set forth below are added to the Use Permit.

BE IT FURTHER RESOLVED that Use Permit No. 173.2044 granted November 18, 1959, as amended December 4, 1963, is hereby further amended to read as follows:

U S E P E R M I T

FOR: (A) Establishment and maintenance of a research, development and testing center for rocket propellents and rocket propulsion systems, including appurtenant and accessory uses thereto, and establishment and maintenance of fabrication facilities for manufacture of subject products for removal from the subject property for purposes other than research, development and/or testing.

B) As an additional use, the establishment and maintenance of facilities for the manufacture, sale and delivery of other industrial products, including appurtenant and accessory uses thereto; but only within the area of the Subject Location that is delineated as Parcel "A" upon a Plat attached hereto marked Exhibit "A" and only such additional uses as are of such character as would be permitted without an additional Use Permit in an M-2 commercial-industrial Zoning District under the Zoning Ordinances of the County of Santa Clara, State of California.

LOCATION: An approximately 3,100 acre parcel lying in the Shingle Valley between the southerly terminus of San Felipe Road and Anderson Lake.

APPLICANT: United Aircraft Corporation

Said applicant is hereby granted a Use Permit for said uses (A) and (B) under the provisions of the Zoning Ordinance of the County of Santa Clara. This grant is made pursuant to the application on file in the office of the Planning Commission and is subject to conditions as follows:

A. AS TO USES (A):

1. The interests of the University of California Lick Observatory be respected with regard to:

   a. The nature and placement of lights.
   b. The time of testing in the event of winds directed toward the observatory.

2. The interests of the Santa Clara Valley Water Conservation District be respected as follows:

   a. Excavation or related activities would be designed and performed in such a manner that sediments from such excavation could not be carried into Anderson Reservoir from runoff in the watershed area.

   b. The research activities be regulated so that none of the waters flowing into Anderson Reservoir shall become polluted.

3. There shall be no testing of nuclear engines.

4. There shall be no intentional detonation of high explosives.

5. There shall be no use of the subject property as a site for the fabrication of rocket propellants or rocket propulsion systems that are to be removed from the premises for purposes other than research, development and/or testing unless and until permittee has entered into an agreement with the County of Santa Clara or its successor, which agreement shall provide as follows:

   That permittee will cooperate with the Department of Public Works in a study to determine the adequacy of access roads and routes between the subject property and a State highway. Permittee shall furnish the county with information as to its present and future traffic requirements in order that the location and design of access roads may be determined.

b. That if it be determined by the Department of Public Works from data developed by the study referred to in Condition No. 5a that the use of the subject property hereby authorized reasonably requires substantial improvement of an existing access road or the establishment of an additional access road, then in that event permittee must participate in the payment of the initial costs of such improvements reasonably required to such an existing access road or must participate in the payment of the initial costs reasonably required to establish such an additional access road, in either instance participation in such cost is limited by the amount thereof not assumed by government or not properly chargeable to others. In determining the proper extent of such participation by permittee, factors to be considered shall include present and prospective uses of said access road by permittee, its employees and suppliers as compared to such use of said access road by the general public.

6. Upon the execution of the agreement described in Condition 5, permittee shall be privileged to construct additional facilities for the purpose of fabrication, as hereinafter defined, only along any of the existing interior roads on the subject property said roads and their location are shown upon Exhibit "A" attached hereto. Permittee shall not construct facilities for fabrication purposes upon the subject property without both architectural and site approval first had and obtained under the procedures provided by applicable zoning ordinances. For the purposes of this condition, "fabrication" shall be defined and deemed to be the manufacture of rocket propellants or rocket propulsion systems for removal from the subject property for purposes other than research, development or testing.

B. AS TO USES (B):

1. The interests of the University of California Lick Observatory be respected with regard to:

   a. The nature and placement of lights.
   b. The time of testing in the event of winds directed toward the observatory.

2. The interests of the Santa Clara Valley Water Conservation District be respected as follows:

   a. Excavation or related activities would be designed and performed in such a manner that sediments from such excavation could not be carried into Anderson Reservoir from runoff in the watershed area.

   b. The research activities be regulated so that none of the waters flowing into Anderson Reservoir shall become polluted.

3. There shall be no testing of nuclear engines.

4. There shall be no intentional detonation of high explosives.

5. petitioner shall be privileged to construct additional facilities for the purpose of said manufacturing, sale and delivery of such other industrial products, but only within the area designated on Exhibit A as Parcel "A", and only in proximity to the existing interior roads which are indicated on Exhibit A; and petitioner shall not construct any such facilities without both architectural and site approval first had and obtained under the procedures provided by the applicable Zoning Ordinance.

6. During the period that petitioner is exercising "B" Uses, as above defined, petitioner shall not employ in excess of fifteen hundred employees on the Subject Location for both "A" and "B" Uses. Upon written request by the Commission, petitioner shall furnish proof of the number of employees at the Subject Location.

Pursuant to Resolution No. 4817 of the County of Santa Clara Planning Commission, State of California, passed and adopted the 18th day of November, 1959, and modified by Resolution No. 7778 of the County of Santa Clara Planning Commission, passed and adopted the 4th day of December 1963; and further modified by Resolution No. 9238 of said County of Santa Clara Planning Commission, passed and adopted this 3rd day of November, 1966, by the following roll call vote:

AYES: GROTH, MIRASSOU, TIXVICA, FLETCHER

NOES: NONE

ABSENT: LESTER, WECKSLER

ABSTAINED: TERESI

John S. Haas, Secretary

File No. 173.2044

File no. 20 P 63.3

COUNTY OF SANTA CLARA PLANNING COMMISSION
Santa Clara County Office Building
70 West Hedding Street
San Jose 10, California

USE PERMIT

Issued to: UNITED AIRCRAFT CORPORATION

For: Establishment and maintenance of a research, development and testing center for rocket propellants and rocket propulsion systems, including appurtenant and accessory uses thereto, and establishment and maintenance of fabrication facilities for manufacture of subject products for removal from the subject property for purposes other than research, development and/or testing

Location: An approximately 2,000 acre parcel located on the easterly side of Monterey Road, southerly of Metcalf Road, and westerly of present property of United Aircraft Corporation

Permittee is hereby granted a use permit for said use under the provisions of Article 47 of the zoning ordinance. This grant is made pursuant to the application on file in the office of the Planning Commission, and is subject to the following conditions:

See Exhibit "A" attached hereto and made a part hereof.

Pursuant to Resolution No. 7755-A of the County of Santa Clara Planning Commission, State of California, passed and adopted on December 18, 1963.

John S. Hoss, Secretary
County of Santa Clara Planning Commission

ACCEPTANCE:

The undersigned understands and accepts this permit and the conditions thereto set forth, agrees to comply with all conditions of the permit, understands that failure to comply therewith will render the permit subject to revocation and acknowledges receipt of the copy of this permit.

UNITED AIRCRAFT CORPORATION

July 30, 1964
Date

Signature of permittee B. A. Adelman
Division President, United Technology Center

This permit, subject to the conditions stated therein shall not be deemed to be granted by the Planning Commission until the condition of acceptance has been executed by the applicant and a copy thereof filed with the Secretary of the Planning Commission.

EXHIBIT "A"

1. The principal use of subject property shall be as a buffer area to the property and uses conducted by permittee under Use Permit No. 173.2044. No portion of subject property shall be used for fabrication or testing of rocket propellants or rocket propulsion systems except such fabrication or testing as is customarily conducted in a research laboratory building.

2. Architectural and Site approval shall be secured for the establishment and conduct of any use in accordance with the provisions of Article 51 of the Santa Clara County Zoning Ordinance.

3. The uses authorized by this permit are restricted to permittee only and are not transferrable unless approval is secured from the Santa Clara County Planning Commission.

4. Prior to the establishment of any use of the property and as a part of Architectural and Site Approval, permittee shall be required to meet the requirements of the Department of Public Works as to street improvements required to the subject property.

5. The interests of the University of California Lick Observatory be respected with regard to:

   a. The nature and placement of lights.

   b. The time of testing in the event of winds directed toward the observatory.

6. The interests of the Santa Clara Valley Water Conservation District be respected as follows:

   a. Excavation or related activities would be designed and performed in such a manner that sediments from such excavation could not be carried into Anderson Reservoir from runoff in the watershed area.

   b. The research activities be regulated so that none of the waters flowing into Anderson Reservoir shall become polluted.

7. There shall be no testing of nuclear engines.

8. There shall be no intentional detonation of high explosives.

APPENDIX Q

BAAQMD PERMITS TO OPERATE

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

PERMIT TO OPERATE

Plant# 710 Page: 1 Expires: AUG 1, 2006

This document does not permit the holder to violate any District regulation or other law

Marilyn A Cassady
United Technologies Corporation
600 Metcalf Road
San Jose, CA 95138

Location: 600 Metcalf Road
San Jose, CA 95138

S#	DESCRIPTION	[Schedule]	PAID
88	MISC-HDLG> Material handling, 1 tons/hr max Compactor (2233JMI) Abated by: A88 Adsorption, Activated Carbon/Charcoal Emissions at: P88 Stack	[F]	150
90	CHEM> Contaminated ground water stripping Air Stripper Emissions at: P90 Stack	[G1]	624
97	Service Station G6470, 1 gasoline nozzles Vehicle Non Retail Gasoline Dispensing Facility	[D]	36
115	MISC> Abrasives blasting, Gravel/sand, .1 tons/hr max Sandblast Cabinet # 1 - Station 20 Abated by: A115 Baghouse, Shaking	[exempt]	0
116	Misc CHEM, Solid propellant, 0002 tons/hr max Grieve Walk-In Oven Emissions at: P116 Stack	[F]	150
122	Misc CHEM, Solid fuel - other/not spec, .01 tons/hr max Reaction Tumbler Emissions at: P122 Stack	[F	150
123	Misc CHEM, Solid fuel - other/not spec, 005 tons/hr max Digester Tank Emissions at: P123 Stack	[F]	150

The operating parameters described above are based on information supplied by permit holder and may differ from the limits set forth in the attached conditions of the Permit to Operate. The limits of operation in the permit conditions are not to be exceeded. Exceeding these limits is considered a violation of District regulations subject to enforcement action.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

PERMIT TO OPERATE

Plant# 710 Page: 2 Expires: AUG 1, 2006

This documer does not permit the holder to violate any District regulation or othe aw

S#	DESCRIPTION	[Schedule]	PAID
509	CHEM> Contaminated soil remediation, Contaminated soil vapor SOIL VAPOR EXTRACTION OPERATION Abated by: A509 Adsorption, Activated Carbon/Charcoal	[G1	624
510	CHEM> Contaminated soil remediation, Contaminated soil vapor SOIL VAPOR EXTRACTION OPERATION Abated by: A510 Adsorption, Activated Carbon/Charcoal	[G1	624
517	STANDBY, Reciprocating Engine - Elec Gen - Non-Cogen Only Diesel Engine, Caterpillar model 3306 SR4	[B]	137
520	STANDBY, Reciprocating Engine - Elec Gen - Non-Cogen Only Diesel Engine, Cummins model 6CT0097	[B]	137
527	STANDBY, Reciprocating Engine - Elec Gen - Non-Cogen Only Diesel Engine, Caterpillar model 3306, emergency standby, p	[B]	137

11 Permit Sources, 1 Exempt Source

*** See attached Permit Conditions

The operating parameters described above are based on information supplied by permit holder and may differ from the limits set forth in the attached conditions of the Permit to Operate. The limits of operation in the permit conditions are not to be exceeded. Exceeding these limits is considered a violation of District regulations subject to enforcement action.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

PERMIT TO OPERATE

This document does not permit the holder to violate any District regulation or othe law

PERMIT CONDITIONS

Source# 88	subject	to	Condition	ID# 2503
Source# 90	subject	to	Condition	ID# 3143
Source# 97	subject	to	Condition	ID# 14098
Source# 115	subject	to	Condition	ID# 9098
Source# 116	subject	to	Condition	ID# 9712
Source# 122	subject	to	Condition	ID# 13610
Source# 123	"	"	"	ID# 13610
Source# 509	subject	to	Condition	ID# 10746
Source# 510	subject	to	Condition	ID# 20435
Source# 517	subject	to	Condition	ID# 19326
Source# 520	"	"	"	ID# 19326

*** PERMIT CONDITIONS ***
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CONDITION ID #2503

For S - 88, Compactor (2233JMI)

1. The owner/operator shall cover or contain all containers with volatile organic residual material.
(Basis: Regulation 8-4-302)

*2 The owner/operator shall rinse all containers with residual material containing Chromic Acid (e.g., Alodine).
(Basis: TRMP)

*3. The owner/operator shall dispose of all rinse water generated from part 2 of this condition as hazardous waste.
(Basis: TRMP)

CONDITION ID #3143

For S - 90 Air Stripper, Contaminated Groundwater:

1. The owner/operator shall ensure that S-90 does not discharge air emissions into the atmosphere more than 300 ppm carbon on a dry basis or more than 15 pounds of volatile organic compounds per day. The owner/operator shall ensure that daily emissions from S-90 do not exceed the following limits:

Compound	emission limit (lbs/day)
Trichloroethylene	0.10
Chloromethane	0.10

(Basis: Regulation 8-2-301, TRMP)

2. In order to demonstrate compliance with part 1 of this condition, the owner/operator shall do the following:
   a. Twice each month, the owner/operator shall take samples of the influent ground water to S-90. The owner/operator shall ensure the samples are analyzed to determine the concentrations of volatile organic compounds (VOC) present.
   b. The owner/operator shall calculate emissions based on the ground water flow rate to the air stripping

*** PERMIT CONDITIONS ***

tower and lab analysis of the VOC concentration in the influent ground water. The owner/operator may subtract the amount of VOCs that remain in the treated groundwater if laboratory data are available to support this calculation.
(Basis: Regulation 8-47-601, TRMP)

3 The owner/operator shall maintain the following records on-site and retain the records for five years following the date on which the record is made. In addition, the owner/operator shall make the records available to District staff for inspection upon request :
a. days and hours of operation
b. ground water flow rate
c. air flow rate
d. date ground water samples were taken
e. lab analysis results of the VOC concentrations in the influent ground water
f. calculated emissions of trichloroethylene, chloromethane and total VOCs in pounds per day.
(Basis: Regulation 8-47-501, TRMP)

4. The owner/operator shall report and record any exceedance of the limits set forth in part 1 of this condition in accordance with standard condition I.F. The owner/operator shall ensure the report includes an explanation of the cause of the violation and the corrective action taken.
(Basis: Regulation 8-47-501, TRMP)

CONDITION ID #9098

S-114 & A-114 @ Plant #710 - Sandblast Room, Custom Made/Cadillac, Quickblast/Fulblast (Station 20) abated by A-114 External Baghouse Filter Cartridge Dust Collector TORIT, Model: TD 2300, 6400 cfm

1 The total amount of abrasive blast material used at S-114 shall not exceed 15.0 ton (30,000 lb) in any rolling 12 consecutive month period.

2 Particulate emissions from S-114 shall be abated by A-114 (external baghouse) at all times abrasive blast operations occur at S-114.

*** PERMIT CONDITIONS ***

3) The monthly usage of abrasive blast material at S-114 shall be recorded in a District approved log and retained for at least two years from date of entry. This log shall be kept on site and made available to the District staff on request.

S-115 & A-115 @ Plant #710 - Sandblast Cabinet #1; CB Process Equipment, 4836P Special, 80 ft. 3/min. (Station 20) abated by A-115 Universal Ful-Blast P/N 136703D, Model: 4836, 800 cfm

1 The total amount of abrasive blast material used at S-115 shall not exceed 5.0 ton (10,000 lb) in any rolling 12 consecutive month period.

2 Particulate emissions from S-115 shall be abated by A-115 (baghouse/filter) at all times abrasive blast operations occur at S-115.

3) The monthly usage of abrasive blast material at S-115 shall be recorded in a District approved log and retained for at least two years from date of entry. This log shall be kept on site and made available to the District staff on request.

CONDITION ID #9712

For S-116, Walk-In Oven; Solid Propellant

1. The owner/operator shall ensure that electricity is the only source of power for S-116.
(Basis: Cumulative Increase)

2. The owner/operator shall ensure that the amount of propellant material processed at S-116 does not exceed 50 pounds in any rolling 365 consecutive day period.
(Basis: Cumulative Increase)

3 he owner/operator shall ensure that the amount of propellant material processed at S-116 does not exceed 10 pounds in any rolling 24 consecutive hour period.
(Basis: Cumulative Increase)

*** PERMIT CONDITIONS ***

4. The owner/operator shall ensure that the daily amount of propellant material processed at S-116 is recorded in a District approved log. The owner/operator shall retain this log on-site for a period of at least five years from date of entry. The owner/operator shall make the available to the District staff for inspection upon request.
(Basis: Cumulative Increase)

CONDITION ID #10746

For S-509, Soil Vapor Extraction Operation, Contaminated soil remediation:

1. The owner/operator shall ensure that source S-509 is vented at all times to A-509, at least two (1000 lb minimum capacity) activated carbon vessels arranged in series. In addition, the owner/operator shall ensure that the influent vapor flow does not exceed 150 scfm
(Basis: Cumulative Increase, TRMP)

2. The owner/operator of S-509 shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the District's Source Test Manager at the following locations:
   a. At the inlet to the second to last carbon vessel in series.
   b. At the inlet to the last carbon vessel in series.
   c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere.

   When using an FID to monitor breakthrough, the owner/operator may take readings with and without a Carbon filter tip fitted on the FID probe. Concentrations measured by the owner/operator with the Carbon filter tip in place shall be considered methane for the purpose of these permit conditions.
   (Basis: Cumulative Increase, TRMP)

3 The monitor readings shall be recorded by the owner/operator in a monitoring log at the time they are taken. The monitoring results shall be used by the owner/operator to estimate the frequency of Carbon change-out necessary to maintain compliance with

*** PERMIT CONDITIONS ***

conditions parts 4 and 5 of this condition. The owner/operator shall conduct monitoring twice during the initial three days of operation when S-509 is relocated and operated at a station, and once per week thereafter. The operator of S-509 may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to implementing a change to the monitoring schedule.
(Basis: Cumulative Increase)

4 The owner/operator shall immediately change out the second to last Carbon vessel with unspent Carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:
a. 10 % of the inlet stream concentration to the Carbon vessel.
b. 6 ppmv (measured as C1).
Basis: Cumulative Increase, TRMP)

5 The owner/operator shall immediately change out the last Carbon vessel with unspent Carbon upon detection at its outlet of 6 ppmv (measured as C1).
(Basis: Cumulative Increase, TRMP)

6. The owner/operator of S-509 shall maintain the following records for each month of operation of the source:
a. The hours and times of operation.
b. Each monitor reading or analysis result for the day of operation they are taken.
c. The number of Carbon beds removed from service.
The owner/operator shall maintain all measurements, records and data and shall retain the records on-site for at least five years following the date on which the data is recorded. The owner/operator shall make the records available for inspection by the District staff upon request.
(Basis: Regulation 2-6-501)

7 Any exceedance of part 4 and/or 5 of this condition

*** PERMIT CONDITIONS ***

shall be reported by the owner/operator to the Compliance and Enforcement Division in accordance with standard condition I.F.
(Basis: Regulation 2-1-403)

8. Upon final completion of the remediation project, the owner/operator of Source S-509 shall notify the Permit Services Division within two weeks of decommissioning the operation.
(Basis: Regulation 2-1-403)

CONDITION ID #13610

For S-122, Reaction Tumbler, Solid fuel; S-123, Digester Tank, Solid fuel:

1. The owner/operator shall ensure that no more than 40,000 pounds of material, (excluding sodium hydroxide and water) including all other materials including all wastes, inert and energetic, may be throughput to S-122 for the purpose of undergoing base hydrolysis treatment processing, in any rolling 365 consecutive day period.
(Basis: Cumulative Increase)

2. The owner/operator shall ensure that no more than 200 pounds of material, (excluding sodium hydroxide and water) including all other materials including all wastes, inert and energetic, may be throughput to S-122 for the purpose of undergoing base hydrolysis treatment processing, in any single calendar day (24 hour period)
(Basis: BACT)

3. The owner/operator shall ensure that only materials that have been throughput to S-122 for the purpose of base hydrolysis treatment and have begun base hydrolysis treatment at S-122 or materials that have undergone base hydrolysis treatment at S-122 and S-123 shall be throughput to S-123 for the purpose of base hydrolysis treatment processing.
(Basis: Cumulative Increase)

4. The owner/operator shall ensure that S-122 and S-123 are always operated in series and never operated in parallel. However, if the testing of materials having

*** PERMIT CONDITIONS ***

already undergone base hydrolysis treatment at S-122 and S-123 reveals that additional base hydrolysis treatment is required, these materials may be throughput to S-123 for the purpose of additional base hydrolysis treatment at S-123 without additional processing at S-122, as often as the owner/operator desires. The owner/operator is not required to record the throughput(s) of materials to S-123, which have already undergone base hydrolysis treatment at S-122 and S-123 and have been found by testing to require additional base hydrolysis treatment. (Condition numbers 5 and 6 do not apply to the throughput(s) of materials S-123 for the purpose of additional base hydrolysis treatment, which have already undergone base hydrolysis treatment at S-122 and S-123 and been found by testing to require additional base hydrolysis treatment.)
(Basis: Cumulative Increase)

5 The owner/operator shall record the following information for each material introduced into S-122:
a. the amount of all material, inert and energetic added together, (excluding sodium hydroxide and water) placed into S-122 for base hydrolysis treatment processing, in pound units;
b. the date and time of each material added to S-122 for the purpose of base hydrolysis treatment processing.

The owner/operator shall maintain the District approved log on-site for at least five years from the date of last entry. The owner/operator shall make the log available to the District staff for inspection upon request.
(Basis: Cumulative Increase, Regulation 2-6-501)

6. In a District approved log, the owner/operator shall record the throughput of all material, inert and energetic added together, (excluding sodium hydroxide and water) placed into S-122 as being equivalent to the amount of all material, inert and energetic added together, (excluding sodium hydroxide and water) placed into S-123 for base hydrolysis treatment processing, in pound units. The owner/operator shall maintain the District approved log on-site for at least five years from the date of last entry. The owner/operator shall make the log available to the District staff for

*** PERMIT CONDITIONS ***

inspection upon request.
(Basis: Cumulative Increase, Regulation 2-6-501

CONDITION ID #14098

1. Pursuant to BAAQMD Toxic Section Policy, the owner/operator shall ensure that the annual gasoline throughput does not exceed 940,000 gallons in any consecutive 12 month period.

CONDITION ID #19326

For S-517, S-518, S-519, And S-520 - Emergency Standby Generators, Firing Diesel:

1. The owner/operator shall ensure that only No. 2 Diesel Oil with a sulfur content less than 0.5% by weight is used to operate sources S-517 through S-520.
(Basis: Cumulative Increase, Regulation 9-1-304)

2 To demonstrate compliance with part 1 of this condition and Regulation 9-1-304, the owner/operator shall request the fuel oil vendor to certify the sulfur content of the fuel supplied.
(Basis: Regulation 2-6-409.2)

3. Hours of operation: The owner/operator shall ensure that sources S-517 through S-520 are only operated to mitigate emergency conditions or for reliability-related activities. The owner/operator shall ensure that the operation of sources S-517 through S-520 for reliability related activities does not exceed 100 hours in any calendar year. Operation of sources S-517 through S-520 while mitigating emergency conditions is unlimited.
(Basis: Regulation 9-8-330)

4 The owner/operator shall equip sources S-517 through S-520 with non-resettable totalizing meters that measure hours of operation and/or fuel usage. The owner/operator of sources S-517 through S-520 shall maintain the following records on a monthly basis in a District approved log for at least 5 years from the date of the last entry. The owner/operator shall make the logs

*** PERMIT CONDITIONS ***

available for District inspection upon request:
a. Hours of operation (total).
b. Hours of operation (emergency).
c. For each emergency, the nature of the emergency condition.
d. Fuel oil certifications.
(Basis: Regulation 2-6-409.2, Regulation 9-8-530)

CONDITION ID #20435

For S-510, Soil Vapor Extraction Operation, Contaminated soil remediation:

1 The owner/operator shall ensure that source S-510 is vented at all times to A-510, at least two (1000 lb minimum capacity) activated carbon vessels arranged in series. In addition, the owner/operator shall ensure that the influent vapor flow does not exceed 150 scfm.
(Basis: Cumulative Increase, TRMP)

2 The owner/operator of S-510 shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the District's Source Test Manager at the following locations:
a. At the inlet to the second to last carbon vessel in series.
b. At the inlet to the last carbon vessel in series.
c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere. When using an FID to monitor breakthrough, the owner/operator may take readings with and without a Carbon filter tip fitted on the FID probe. Concentrations measured by the owner/operator with the Carbon filter tip in place shall be considered methane for the purpose of these permit conditions.
(Basis: Cumulative Increase, TRMP)

3 The monitor readings shall be recorded by the owner/operator in a monitoring log at the time they are taken. The monitoring results shall be used by the owner/operator to estimate the frequency of Carbon change-out necessary to maintain compliance with parts 4 and 5 of this condition. The owner/operator shall

*** PERMIT CONDITIONS ***

conduct monitoring twice during the initial three days of operation when S-510 is relocated and operated at a station, and once per week thereafter. The owner/operator of S-510 may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to implementing a change to the monitoring schedule.
(Basis: Cumulative Increase, TRMP)

4. The owner/operator shall immediately change out the second to last Carbon vessel with unspent Carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:
   a. 10 % of the inlet stream concentration to the Carbon vessel.
   b. 6 ppmv (measured as C1).
   (Basis: Cumulative Increase, TRMP)

5. The owner/operator shall immediately change out the last Carbon vessel with unspent Carbon upon detection at its outlet of 6 ppmv (measured as C1).
   (Basis: Cumulative Increase, TRMP)

6. The owner/operator of S-510 shall maintain the following records for each month of operation of the source:
   a. The hours and times of operation.
   b. Each monitor reading or analysis result for the day of operation they are taken.
   c. The number of Carbon beds removed from service.
   The owner/operator shall maintain all measurements, records and data and shall retain the records on-site for at least five years following the date on which the data is recorded. The owner/operator shall make the records available for inspection by the District staff upon request.
   (Basis: Cumulative Increase, TRMP)

7. Any exceedance of part 4 and/or 5 of this condition shall be reported by the owner/operator to the Compliance and Enforcement Division at the time that it

*** PERMIT CONDITIONS ***

is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.
(Basis: Regulation 2-1-403)

8. Upon final completion of the remediation project, the owner/operator of Source S-510 shall notify the Permit Services Division within two weeks of decommissioning the operation.
(Basis: Regulation 2-1-403)

END OF CONDITIONS

S#	Source Description	Annual Average lbs/day PART	ORG	NOx	SO2	CO
88	Compactor (2233JMI)	-				
90	Air Stripper	06	3.1			
97	Non Retail Gasoline Dispensing Facility	-	.08			
115	Sandblast Cabinet # 1 - Station 20					
116	Grieve Walk-In Oven					
122	Reaction Tumbler					
123	Digester Tank	-	-	-	-	-
509	SOIL VAPOR EXTRACTION OPERATION	-	.17	-	-	-
510	SOIL VAPOR EXTRACTION OPERATION	-	.12	-	-	-
517	Diesel Engine, Caterpillar model 3306 SR4	.07	.07	.95	.01	.21
520	Diesel Engine, Cummins model 6CT0097	.05	.05	.66	.01	.14
527	Diesel Engine, Caterpillar model 3306, eme	.03	.03	.42	-	.09
	T O T A L S	.21	3.64	2.03	.03	.44

** PLANT TOTALS FOR EACH EMITTED TOXIC POLLUTANT

Pollutant Name	Emissions lbs/day
Formaldehyde	.02
1,1,1-trichloroethane (with dioxane)	.03
Trichloroethylene	.16
Methylene chloride	.01
Methyl tertiary-butyl ether	.01
Trichlorofluoromethane	.02

APPENDIX R

RWQCB WASTE DISCHARGE REQUIREMENTS

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 95-190

WASTE DISCHARGE REQUIREMENTS FOR:

UNITED TECHNOLOGIES CORPORATION,
(CHEMICAL SYSTEMS DIVISION - COYOTE CENTER)

600 METCALF ROAD
SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board), finds that:

1. **Site Location:** United Technologies Corporation (UTC), hereinafter also referred to as the discharger, owns and operates the Chemical Systems Division - Coyote Center in Santa Clara County as shown in Figure 1. The site is located in an unincorporated area of Santa Clara County approximately five miles south of San Jose and four miles east of U.S. Highway 101. The site is located in an area of rolling hills and relatively broad valleys. There are several creeks that flow through the site which ultimately discharge into Anderson Reservoir located one-half mile downgradient of the property.

2. **Site History:** UTC began on-site operation in 1959 and occupies 5,200 acres including over 200 stations used for laboratories, research, testing, manufacturing, storage, maintenance, and administration. The discharger develops, manufactures, and tests space and missile propulsion systems.

   Land in surrounding areas is zoned mostly for agricultural use. Ranch lands are located to the north, east, and southeast of UTC. To the northwest and west are two regional parks and some open public land. The nearest residences are a few ranch houses or other dwellings located within 3,000 feet to the north, northeast, and southeast of the site boundaries.

3. **Sewage Treatment Facilities**

   UTC treats and discharges sanitary sewage on site. The sewage treatment facilities are described below.

   3.a. **Wastewater Treatment Plant 2100** is a secondary treatment plant which receives sanitary sewage from approximately 1500 employees. In addition, approximately 7,000 gpd of flow from industrial discharges such as boiler blowdown, cooling

towers, compressor condensate, and heating/air conditioning condensate are directed to the treatment plant.

The monthly average wet weather flow is 29,000 gallons per day and monthly average dry weather flow is 23,000 gallons per day. The design capacity of the treatment plant is 95,000 gallons per day, 120 lbs/day for BOD, and 125 lbs/day for suspended solids.

Effluent from the plant is sprayed onto approximately four acres of hillsides for disposal by evapotranpiration on Sprayfield 2100. Excess water from the sprayfield drains to four cascading ponds (storage ponds 2100/P1-P4). An additional storage pond (pond 2120) in the Panhandle area handles excess flow from pond 2100. The ponds have a combined storage capacity of approximately 7.6 million gallons. Effluent in the ponds is recirculated back to the sprayfield. Sludge from the plant is discharged to drying ponds next to the plant.

In 1982, 1983, and 1986, excessive rains led to overflows of the holding pond systems. In 1986, a 2.3 million gallon pond (storage pond 2120) was added to provide additional storage capacity for emergency situations. However, in 1993 and 1994, again due to excessive rains, there were overflow problems with the pond system. The sprayfield and the storage pond system should be evaluated and if necessary, be retrofitted to prevent future overflow problems.

3.b. Leachfields

A total daily average flow of 2150 gallons is discharged to 5 septic tanks with leachfields. These are leachfields 0080, 0460, 0530, 0560, and 0570. Domestic sewage is discharged into the leachfields.

3.c. Sewage Tanks

Sewage tanks 1319 and 1372 hold domestic and industrial wastewater which is hauled offsite.

4. Other Waste Discharges

4.a. Water Treatment Plant-Pond 2215

Pond 2215 is an earthen pond which receives about 20,000 gallons per month of zeolite backwash water from the water treatment plant.

4.b. Extracted Groundwater

Contaminated groundwater at the site is extracted and reclaimed. Treated

groundwater is used by UTC and offsite users for irrigation, dust control and fire control. This activity is regulated under site cleanup requirements for the site.

4.c. **Open Burning Facility - Station 0891**

This is an area within the Panhandle area used to thermally treat solid rocket propellant, explosive scraps, excessive reactive propellant related materials, propellant contaminated rags, sample residuals, and oxidizer salts. Wastes are burned approximately every two months and the metal burn pans are cleaned after each burn. The residual ash is separated from any metal scraps. Ash is placed in containers for hauling off-site to a class I landfill. EPA and DTSC regulate this disposal activity under RCRA and the permitting process respectively.

5. **Regulatory Status:** The Board has adopted the following orders for the site:

- Waste Discharge Requirements, Order No. 89-008, updated January 18, 1989
- Water Reclamation Requirements, Order No. 91-006, adopted January 16, 1991.
- Site Cleanup Requirements, Order No. 94-064, adopted May 18, 1994, and amended May 17, 1995.

6. **Basin Plan:** The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on December 17, 1986, and the State Board Approved it on May 21, 1987. The Board has amended the basin plan several times since then. The Basin Plan defines beneficial uses and water quality objectives for waters of the State, including surface waters and groundwaters.

The existing and potential beneficial uses of Anderson Reservoir, located approximately one half mile downgradient of the discharger's property, include:

a. Municipal Supply
b. Ground water recharge
c. Non - contact water recreation
d. Warm and cold water habitat
e. Wildlife habitat
f. Fish spawning

Anderson Reservoir ultimately discharges to Coyote Creek, which flows northwest to South San Francisco Bay. The existing and potential beneficial uses of Coyote Creek and tributaries include:

a. Industrial process supply
b. Water contact recreation

c. Ocean commercial and sport fishing
d. Warm fresh water habitat
e. Preservation of areas of special biological significance
f. Wildlife habitat
g. Marine habitat
h. Fish migration and spawning
i. Fresh water replenishment
j. Groundwater recharge

The existing and potential beneficial uses of the groundwater underlying and adjacent to the discharger's facilities include:

a. Industrial process water supply
b. Industrial service supply
c. Agricultural supply
d. Municipal and domestic supply

7. **Other Board Policies:** Board Resolution No. 89-39, "Sources of Drinking Water" defines potential sources of drinking water to include all groundwater in the region, with limited exceptions for areas of high total dissolved solids (TDS), low yield, or naturally high contaminant levels. The shallow/alluvial ground water zone(s) at this site qualify as potential sources of drinking water. Most portions of the deeper Santa Clara Formation groundwater do not qualify as potential sources of drinking water based on the second criteria the low yield criteria.

8. **State Board Policies:** State Board Resolution No. 68-16 "Statement of Policy with Respect to Maintaining High Quality Waters in California" calls for maintaining the existing high quality of State waters unless it is demonstrated that any change would be consistent with the maximum public benefit and not unreasonably affect beneficial uses. This is based on a Legislative finding, contained in Section 13000, California Water Code, which states in part that it is State policy that "waters of the State shall be regulated to attain the highest water quality which is reasonable."

9. **CEQA:** This action is categorically exempt from the provisions of CEQA pursuant to Section 15304 of the Resources Agency Guidelines.

10. **Notification:** The Board has notified the discharger and all interested agencies and persons of its intent under California Water Code Section 13263 to prescribe Waste Discharge Requirements for the discharger and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

11. **Public Hearing:** The Board, at a public meeting, heard and considered all comments

pertaining to this discharge.

IT IS HEREBY ORDERED, pursuant to Section 13263 of the California Water Code that the discharger (or its agents, successors, or assigns) shall cleanup and abate the effects described in the above findings as follows:

A. PROHIBITIONS:

1. **Bypass or Overflow:** There shall be no bypass or overflow of sewage from the collection, treatment or disposal system to waters of the State.

2. **Flow:** The average dry weather flow to the sewage treatment plant shall not exceed 95,000 gpd. Average flow shall be determined over three consecutive dry weather months each year.

3. **Effluent Migration Control:** Effluent shall not be allowed to escape from the designated spray area, except into the holding ponds, via surface flow or airborne spray.

B. TASKS:

1. **Evaluation of the Sewage Treatment Plant**
Compliance Date **March 1, 1996**

Submit a technical report acceptable to the Executive Officer to evaluate the sprayfield and the storage capacity of the ponds, including but not limited to a water balance calculation for the system for two consecutive wet winters. The report should determine the reason(s) for overflow conditions which occurred in 1993 and 1994 rainy seasons, and propose to modify the system to prevent future overflows. The report shall include a schedule for implementing the modifications, if any.

2. **Completion of Evaluation of the Sewage Treatment Plant**
Compliance Date **According to Schedule Approved by the Executive Officer**

Submit a technical report acceptable to the Executive Officer documenting the completion of the necessary task identified in Task 1 workplan.

C. SPECIFICATIONS:

1. **Effluent Limits:** The discharger shall assure that the sewage effluent meets the

following requirements:

a.	Dissolved Sulfides	0.1 mg/l maximum
b.	pH	6.0 minimum 9.0 maximum
c.	5-day BOD	Monthly average: 30 mg/l, Daily max:60 mg/l
d.	Dissolved oxygen	1 mg/l minimum
e.	Median value for total coliform bacteria in any five consecutive samples, and	23 MPN/100 ml
	Total number of coliform bacteria in any sample	240 MPN/100 ml
f.	Oil and grease	20 mg/l maximum

2. **Freeboard:** A minimum freeboard of two feet shall be maintained in holding pond P4 and 2120 and a minimum freeboard of one foot in ponds 1, 2 and 3 and water treatment plant pond 2215.

3. **Sprayfield:** Wastewater spraying shall be limited to the area specified in Finding 3a of this Order.

4. **Access:** The public shall be effectively excluded from the treatment plant, holding ponds, and effluent spray area. Perimeter warning signs should be posted indicating that wastewater effluent is not safe for drinking or contact.

5. **Equipment Identification:** All equipment and piping carrying wastewater influent and effluent shall be properly identified.

6. **Flood Protection:** All treatment facilities, the sprayfield and holding ponds shall be protected from erosion, washout, and flooding during a 100 year frequency storm.

7. **Design Capacity:** The holding ponds and the effluent spray area shall have sufficient capacity to accommodate all wastewater generated from the facility and rain water during a 10 year frequency storm.

8. **Ponding of Wastewater:** The discharger shall manage effluent spraying so as to minimize wastewater ponding in the spray field which could cause mosquito breeding problems.

9. **Leachfields and Sewage Tanks:** These facilities shall be managed so that there is no surfacing or ponding of wastewater in the vicinity of the leachfields or sewage tanks.

D. PROVISIONS

1. **No Nuisance:** The storage, handling, treatment, or disposal of polluted soil or groundwater, including groundwater reclamation, shall not create a nuisance as defined in California Water Code Section 13050(m).

2. **Good O&M:** The discharger shall operate and maintain in good working order, and operate efficiently, any facility or control system installed by the discharger to achieve compliance with the requirements of this Order, including groundwater reclamation.

3. **Access to Site and Records:** In accordance with California Water Code Section 13267(c), the discharger shall permit the Board or its authorized representative:

   a. Entry upon premises in which any pollution source exists, or may potentially exist, or in which any required record are kept, which are relevant to this Order.

   b. Access to copy any records required to be kept under the requirements of this Order.

   c. Inspection of any monitoring or remediation facilities installed in response to this Order.

   d. Sampling of any groundwater or soil which is accessible, or may become accessible, as part of any investigation or remedial action program undertaken by the discharger.

4. **Self-Monitoring Program:** The discharger shall comply with the Self-Monitoring Program as attached to this order and as may be amended by the Executive Officer.

5. **Contractor Qualifications:** All technical reports or documents which contain engineering plans or specifications, shall be signed by or stamped with the seal of a professional engineer who was in responsible charge of the work, and who certifies the completeness and accuracy of the data or information being submitted

under his/her charge.

6. **Lab Qualifications:** All samples shall be analyzed by State certified laboratories or laboratories accepted by the Board using approved methods for the type of analysis to be performed or other methods approved by the Board. All laboratories shall maintain quality assurance/quality control records for Board review. The discharger shall maintain the certified analytical results for five years, and make them available to the Board upon request.

7. **Reporting of Changed Owner or Operator:** The discharger shall provide written notification of any changes in site occupancy and ownership associated with the facility described in this Order within one month of such changes.

8. **Rescission of Existing Order:** This Order rescinds Order No. 89-008 (waste discharge requirement).

9. **Periodic WDR Review:** The Board will review this Order periodically and may revise the requirements when necessary.

I, Lawrence P. Kolb, Acting Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on September 13, 1995.

9/14/95
Date

Lawrence P. Kolb
Acting Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

UNITED TECHNOLOGIES CORPORATION
CHEMICAL SYSTEMS DIVISION
SEWAGE TREATMENT PLANT

600 METCALF ROAD
SAN JOSE, SANTA CLARA COUNTY

ORDER NO. 95-190

ADOPTED ON
September 13, 1995

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM FOR:

UNITED TECHNOLOGIES CORPORATION,
CHEMICAL SYSTEMS DIVISION

600 METCALF ROAD
SAN JOSE
SANTA CLARA COUNTY

1. **Authority and Purpose:** The Board requests the technical reports required in this Self-Monitoring Program pursuant to Water Code Sections 13263 and 13267. This Self-Monitoring Program is intended to document compliance with Board Order NO. 95-190 (waste discharge requirements).

2. **Sampling and Analytical Methods:** Sample collection, storage, and analyses shall be performed according to the latest edition of "Standard Methods for the Examination of Water and Wastewater" prepared and published jointly by the American Public Health association, American Water Works association, and Water Environment Federation, or Other methods approved and specified by the Executive Officer.

3. **Analyses and Observations:**

   The discharger is required to perform sampling and analyses according to Table 1 and in accordance with the following:

   a. **Definition of Terms**

      GRAB SAMPLE is defined as an individual sample collected in less than 15 minutes.

      WASTE TREATMENT UNIT is defined as any of the facilities utilized to treat or store the waste, including the sewage treatment plant, the spray field, ponds, sewage tanks, and leachfields.

      STANDARD OBSERVATIONS

      i. Determine height of the freeboard in ponds at lowest point of dikes confining the waste.

ii. Evidence of leaching liquid from ponds and sewage tanks and estimated size of affected area shown on a sketch.

iii. Odor: presence or absence, characterization, source, and distance of travel in all waste treatment units.

iv. Evidence of waste escaping the sprayfield or sewage tanks through surface runoff or airborne spray.

v. Evidence of surfacing or ponding of wastewater as well as mosquitoes breeding in the area of the sprayfield, sewage tanks, and leachfields.

vi. Evidence of erosion at the sewage treatment plant, sprayfield, and the ponds.

b. **Description of Observation and Sampling Stations for the Sewage Treatment Plant**

STATION

I At a point in the pipe immediately before the treatment plant

E At a point between the effluent discharge point and the sprayfield.

P At a point in one of the holding ponds P1-P4 and 2120 within 1 foot of the water surface and no less than 2 feet from the bank, representative of the wastewater.

L^1 thru L^a Every 200 feet along the down slope side of the sprayfield around the periphery.

4. **Quarterly Monitoring Reports:** The discharger shall submit quarterly monitoring reports to the Board according to the following schedule.

Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Period	Jan-March	April-June	July-Sept	Oct-Dec
Due Date	May 21	August 21	November 21	February 21

Reports from other Self-Monitoring Programs may be combined with these quarterly reports. The reports for the Waste Discharge Requirements shall include:

a. Transmittal Letter: The transmittal letter shall discuss any violations during the

reporting period and actions taken or planned to correct the problem. The letter shall be signed by the discharger's principal executive officer or his/her duly authorized representative, and shall include a statement by the official, under penalty of perjury, that the report is true and correct to the best of the official's knowledge.

b. Results of Analyses and Observations: The discharger is required to perform sampling and analyses at the sewage treatment plant according to the schedule in Table 1. The discharger shall also report standard observations for the sewage treatment plant, leachfields 0080, 0460, 0530, 0560, 0570, sewage tanks 1319 and 1372, and water treatment plant pond 2215.

5. **Violation Reports:** If the discharger violates requirements in the waste discharge requirements, then the discharger shall notify the Board office by telephone as soon as practicable once the discharger has knowledge of the violation. Board staff may, depending on violation severity, require the discharger to submit a separate technical report on the violation within five working days of telephone notification.

6. **Other Reports:** The discharger shall notify the Board in writing prior to any site activities, such as construction, which have the potential to affect any of the facilities described in this order.

7. **Record Keeping:** The discharger or his/her agent shall retain data generated for the above reports, including lab results and QA/QC data, for a minimum of six years after origination and shall make them available to the Board upon request.

9. **SMP Revisions:** Revisions to the Self-Monitoring Program may be ordered by the Executive Officer, either on his/her own initiative or at the request of the discharger. Prior to making SMP revisions, the Executive Officer will consider the burden, including costs, of associated self-monitoring reports relative to the benefits to be obtained from these reports.

I, Lawrence P. Kolb, Acting Executive officer, hereby certify that this Self-Monitoring Program was adopted by the Board on September 13, 1995.

9/14/95
Date

Lawrence P. Kolb
Acting Executive Officer

TABLE 1
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES WASTEWATER TREATMENT PLANT 2100, SPRAY FIELD, AND STORAGE PONDS

SAMPLING STATIONS	I	E	P	L^1 - L^6	LEACHFIELDS	SEWAGE TANKS
TYPE OF SAMPLES		G	G	O	O	O
Flow Rate, (gpd)	D	D				
5-day BOD (mg/l)		2M				
pH		2M	M			
Dissolved Oxygen (mg/l)		2M	M			
Dissolved Sulfides (mg/l) (1)		2M	M			
Settleable Matter, (ml/l-hr)		2M				
Total Coliform, (MPN/100 ml)		W				
Oil and Grease (mg/l)		2M				
Nitrates (mg/l)		2M	M			
Applicable standard observations			W	W	M	M
Toxicity (2)						
Volatile organic compounds (mg/l) (3)	A					
Semi-volatile organic compounds (mg/l) (4)	A					
Arsenic (5)	A					
Silver (5)	A					
Chromium (5)	A					
Copper (5)	A					
Cyanide (5)	A					
Lead (5)	A					
Nickel (5)	A					

TABLE 1 (CONTINUED)

SAMPLING STATION		I	E	P	L^1-L^6	LEACHFIELDS	SEWAGE TANKS
Mercury	(5)	A					
Zinc	(5)	A					

LEGEND:

G= Grab Sample
O= Observation

D = Daily
W = Once each week
2M = Twice per month
M = Monthly

A= Annually

(1) Analyze for this item only when dissolved oxygen is below 1 mg/l.

(2) Analyze grab samples from pond No.4 for this item only if discharging to the creeks. The test shall be the 96-hour static bioassay using either fathead minnow or three-spine stickleback.

(3) Use Analytical Method 8240 or equivalent.

(4) Use Analytical Method 8270 or equivalent.

(5) Total recoverable metals.