



Generator \_\_\_\_\_ Manifest Document # \_\_\_\_\_

(F) THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

(G) THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

(H) THIS RESRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC. 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 decharacterized waste contains underlying hazardous 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 a fine and imprisonment.

(I) THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC AND HAS BEEN TREATED FOR UNDERLYING HAZARDOUS CONSTITUENTS. 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, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

(J) THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C).

(K) THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PERSUANT TO 268.43, IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D OF THIS PART IS BASED IN PART OR IN WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O, or 40 CFR Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have been unable to detect that nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

(L) THIS DECHARACTERIZED WASTE CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. 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 characteristics. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

(M) THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOVE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS, AS DEFINED IN 268.2(I) HAVE BEEN TREATED ON-SITE TO MEET THE 268.48 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

(N) THIS CONTAMINATED SOIL DOES / DOES NOT (\*CIRCLE ONE\*) CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT (\*CIRCLE ONE\*) EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH (\*CIRCLE ONE\*) THE SOIL TREATMENT STANDARDS AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with the treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

I hereby certify under penalty of law that all information submitted on this and all associated documents is complete, accurate and true to the best of my knowledge.

Generator Signature: \_\_\_\_\_ Title: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

Please use one Land Disposal Restriction & Certification Form per manifest.



Table 1 - Underlying Hazardous Constituents (w/ AES Z-Codes)

Z001	A2213	Z070	1,2-DIBROMO-3-CHLOROPROPANE	Z137	HEXACHLORO-BUTADIENE	Z201	PHYSOSTIGMINE SALICYLATE
Z002	ACENAPHTHYLENE	Z071	ETHYLENE DIBROMIDE (1,2-DIBROMOETHANE)	Z138	HEXACHLORO-CYCLOPENTADIENE	Z202	PROMECARB
Z003	ACENAPHTHENE	Z072	DIBROMOMETHANE	Z139	HxCDDs(ALL HEXACHLORO-DIBENZO-O-DIOXINS)	Z203	PRONAMIDE
Z004	ACETONE	Z073	2,4-0(2,4-DICHLOROPHENOXY-ACETIC ACID)	Z140	HxCDFx (ALL HEXACHLORO-DIBENZO-FURANS)	Z204	PROPHAM
Z005	ACETONITRILE	Z074	O,P'-DDD	Z141	HEXACHLOROETHANE	Z205	PROPOXUR
Z006	ACETOPHENONE	Z075	P,P'-DDD	Z142	HEXACHLOROPROPYLENE	Z206	PROSULFOCARB
Z007	2-ACETYLAMINOFLOURENE	Z076	O,P'-DDE	Z143	IODOMETHANE	Z207	PYRENE
Z008	ACROLEIN	Z077	P,P'-DDE	Z144	ISOBUTYL ALCOHOL	Z208	PYRIDINE
Z009	ACRYLAMIDE	Z078	O,P'-DDT	Z145	ISODRIN	Z209	SAFROLE
Z010	ACRYLONITRILE	Z079	P,P'-DDT	Z146	ISOLAN	Z210	SILVEX(2,4,6-TP)
Z011	ALDICARB SULFONE	Z080	DIBENA(A,H)ANTHRACENE	Z147	ISOSAFROLE	Z211	2,4,5-T (2,4,5-TRICHLOROPHENOXY-ACETIC ACID)
Z012	ALDRIN	Z081	DIBENZ(A,E)PYRENE	Z148	KEPONE	Z212	1,2,4,5-TETRACHLORO-BENZENE
Z013	4-AMINOBIHENYL	Z082	M-DICHLOROBENZENE	Z149	METHACRYLONITRILE	Z213	TCDDs(ALL TETRACHLORO-DIBENZO-P-DIOXINS)
Z014	ANILINE	Z083	O-DICHLOROBENZENE	Z150	METHANOL	Z214	TCDFs (ALL TETRACHLORO-DIBENZO-FURNANS)
Z015	ANTHRACENE	Z084	P-DICHLOROBENZENE	Z151	METHAPYRILENE	Z215	1,1,1,2-TETRACHLORO-ETHANE
Z016	ARAMITE	Z085	DICHLORODIFLOURO-METHANE	Z152	METHIOLCARB	Z216	1,1,2,2-TETRACHLORO-ETHANE
Z017	ALPHA-BHC	Z086	1,1-DICHLOROETHANE	Z153	METHOMYL	Z217	TETRACHLOROETHYLENE
Z018	BETA-BHC	Z087	1,2-DICHLOROETHANE	Z154	METHOXYCHLOR	Z218	2,3,4,6-TETRACHLORO-PHENOL
Z019	DELTA-BHC	Z088	1,1-DICHLOROETHANE	Z155	3-METHYLCHOLANTHRENE	Z219	THIODICARB
Z020	GAMMA-BHC	Z089	TRANS-1,2-DICHLORO-ETHYLENE	Z156	4,4-METHYLENE BIS (2-CHLOROANILINE)	Z220	THIOPHANATE-METHYL
Z021	BARBAN	Z090	2,4-DICHLOROPHENOL	Z157	INDENO(1,2,3-C,D)PYRENE	Z221	TIRPATE
Z022	BENDIOCARB	Z091	2,6-DICHLORPHENOL	Z158	METHYLENE CHLORIDE	Z222	TOLUENE
Z023	BENDIOCARB PHENOL	Z092	1,2-DICHLOROPROPANE	Z159	METHYL ETHYL KETONE	Z223	TOXAPHENE
Z024	BENOMYL	Z093	CIS-1,3-DICHLORO-PROPYLENE	Z160	METHYL ISOBUTYL KETONE	Z224	BROMOFORM (TRIBROMOMETHANE)
Z025	BENZENE	Z094	TRANS-1,3-DICHLORO-PROPYLENE	Z161	METHYL METHACRYLATE	Z225	1,2,4-TRICHLORO-BENZENE
Z026	BENZ(A)ANTHRACENE	Z095	DIELDRIN	Z162	METHYL METHANSULFONATE	Z226	1,1,1-TRICHLORO-ETHANE
Z027	BENZAL CHLORIDE	Z096	DIETHYLENE GLYCOL, DICARBAMATE	Z163	METHYL PARATHION	Z227	1,1,2-TRICHLORO-ETHANE
Z028	BENZO(B)FLORANTHENE	Z097	DIETHYL PHTHALATE	Z164	METOLCARB	Z228	1,1,2-TRICHLORO-ETHANE
Z029	BENZO(K)FLUORANTHENE	Z098	2,4-DIMETHYL PHENOL	Z165	MEXACARBATE	Z229	TRICHLOROETHYLENE
Z030	BENZO(G,H,I)PERYLENE	Z099	DIMETHYL PHTHALATE	Z166	MOLINATE	Z230	TRICHLOROMONO-FLUOROMETHANE
Z031	BENZO(A)PYRENE	Z100	DIMETILAN	Z167	NAPHTHALENE	Z231	2,4,6-TRICHLOROPHENOL
Z032	BROMODICHLOROMETHANE	Z101	DI-N-BUTYL PHTHALATE	Z168	2-NAPHTHYLAMINE	Z232	2,4,6-TRICHLOROPHENOL
Z033	METHYL BROMIDE (BROMOMETHANE)	Z102	1,4-DINITROBENZENE	Z169	0-NITROANLINE	Z233	1,2,3-TRICHLOROPROPANE
Z034	4-BROMOPHENYL PHENYL ETHER	Z103	4,6-DINITRO-O-CRESOL	Z170	P-NITROANLINE	Z234	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
Z035	N-BUTYL ALCOHOL	Z104	2,4-DINITROPHENOL	Z171	NITROBENZENE	Z235	TRIETHYLAMINE
Z036	BUTYLATE	Z105	2,4-DINITROTOLUENE	Z172	5-NITRO-0-TOLUIDINE	Z236	TRIS-(2,3-DEBROMOPROPYL PHOSPHATE)
Z037	BUTYL BENZYL PHTHALATE	Z106	2,6-DINITROTOLUENE	Z173	0-NITROPHENOL	Z237	VERNOLAGE
Z038	2-SEC-BUTYL-4,6-DINITROPHENOL (DINOSEB)	Z107	DI-N-OCTYL PHTHALATE	Z174	P-NITROPHENOL	Z238	VINYL CHLORIDE
Z039	CARBARYL	Z108	P. DIMETHYLAMINOAZO-BENZENE	Z175	N-NITROPHENOL	Z239	XYLENES-MIXED ISOMERS (SUM OF O-M- AND P-XYLENE CONCENTRATIONS)
Z040	CARBENZADIM	Z109	DI-N-PROPYLNITROSAMINE	Z176	N-NITROSODIETHYLAMINE	Z240	ANTIMONY
Z041	CARBOFURAN	Z110	1,4-DIOXANE	Z177	N-NITROSODIMETHYLAMINE	Z241	ARSENIC
Z042	CARBOFURAN PHENOL	Z111	DIPHENYLAMINE	Z178	N-NITROSO-DI-N-BUTYLAMINE	Z242	BIARIUM
Z043	CARBON DISULFIDE	Z112	DIPHENYLNITROSAMINE	Z179	N-NITROSOMETHYL-AMINE	Z243	BERYLLIUM
Z044	CARBON TETRACHLORIDE	Z113	1,2-DIPHENYLHYDRAZINE	Z180	N-NITROSOMORPHOLINE	Z244	CADMIUM
Z045	CARBONSULFAN	Z114	DISULFOTON	Z181	N-NITROSOPIPERIDINE	Z245	CHROMIUM (TOTAL)
Z046	CHLORDANE (ALPHA AND GAMA ISOMERS)	Z115	DITHIOCARBAMATES (TOTAL)	Z182	N-NITROSOPYRROLIDINE	Z246	CYANIDES (TOTAL)
Z047	P-CHLOROANILINE	Z116	ENDOSULFAN1	Z183	OXAMYL	Z247	CYANIDES (AMENABLE)
Z048	CHLOROBENZENE	Z117	ENDOSULFAN 11	Z184	PARATHION	Z248	FLOURIDE
Z049	CHLOROBENZILATE	Z118	ENDOSULFAN SULFATE	Z185	TOTAL PCS's (SUM OF ALL ISOMERS OR ALL AROCLORS)	Z249	LEAD
Z050	2-CHLORO-1,3-BUTADIENE	Z119	ENDRIN	Z186	PEBULATE	Z250	MERCURY-NONWASTE-WATERS FROM RETORT
Z051	CHLORODIBROMOMETHANE	Z120	ENDRIN ALDEHYDE	Z187	PENTACHLOROBENZENE	Z251	MERCURY (ALL OTHERS)
Z052	CHLOROETHANE	Z121	EPTC	Z188	P <sub>6</sub> CDDs (ALL PENTACHLORO-DIBENZO-P-DIOXINS)	Z252	NICKEL
Z053	BIS(2-CHLOROETHOXY) METHANE	Z122	ETHYL ACETATE	Z189	P <sub>6</sub> CDFs (ALL PENTACHLORO-DIBENZO-FURANS)	Z253	SELENIUM (NOT UHC-TC=UHC)
Z054	BIS(2-CHLOROETHYL) ETHER	Z123	ETHYL CYANIDE-(PROPANENITRILE)	Z190	PENTACHLOROETHANE	Z254	SILVER
Z055	CHLOROFORM	Z124	ETHYLBENZENE	Z191	PENTACHLORO-NITROBENZENE	Z255	SULFIDE*
Z056	BIS (2-CHLOROISO-PROPYL) ETHER	Z125	ETHYL ETHER (BIS(2-ETHYL HEXYL) PHTHALATE)	Z192	PENTACHLOROPHENOL	Z256	THALLIUM
Z057	P-CHLORO-M-CRESOL	Z126	ETHYL METHACRYLANE	Z193	PHENACETIN	Z257	VANADIUM*
Z058	2-CHLOROMETHYL VINYL ETHER	Z127	ETHYLENE OXIDE	Z194	PHENANTHRENE	Z258	ZINC*
Z059	CHLOROMETHANE	Z128	FAMHUR	Z195	PHENOL		
Z060	2-CHLORONAPHTHANENE	Z129	FLUORANTHENE	Z196	O-PHENYLENE-DIAMINE		
Z061	2-CHLOROPHENOL	Z130	FLOURENE	Z197	PHORATE		
Z062	3-CHLOROPROPYLENE	Z131	FORMETANATE	Z198	PHTHALIC ACID (CAS 100-21-0)		
Z063	CHRYSENE	Z132	FORMETANATE HYDROCHLORIDE	Z199	PHTHALIC ANHYDRIDE (CAS 85-44-9)		
Z064	0-CRESOL	Z133	FORMPARANATE	Z200	PHYSOSTIGMINE		
Z065	M-CRESOL	Z134	HEPTACHLOR				
Z066	P-CRESOL	Z135	HEPTACHLOR EPOXIDE				
Z067	M-CUMENYL METHYL CARBAMATE	Z136	HEXACHLOROBENZENE				
Z069	CYCLOHEXANONE						

**TABLE 2 - WASTE CODES WITH SUBCATEGORIES**

Waste Codes	Subcategory Number	Subcategory
D001	1	High TOC ignitable liquids
	2	Low TOC ignitable liquids managed in CWA/CWA equivalent/Class 1 SDWA systems
	3	Low TOC ignitable liquids managed in non-CWA/non-CWA equivalent/non Class 1 SDWA systems
D002	4	Corrosive waste managed in CWA/CWA equivalent/Class 1 SDWA systems
	5	Corrosive waste managed in non-CWA/non-CWA equivalent/non-Class 1 SDWA systems
D003	6	Water reactive
	7	Reactive cyanides
	8	Reactive sulfides
D006	9	Other reactive wastes
	10	Characteristic for cadmium based on extraction procedure
	11	Cadmium-containing batteries
D008	12	Characteristic for lead based on extraction procedure
	13	Lead acid batteries
D009	14	Low mercury (<260 ppm total mercury)
	15	High mercury (>260 ppm total mercury)
F003 F005	16	Wastes that contain only one or more of the following solvents: carbon disulfide, cyclohexanone and/or methanol
F005	17	Contains only 2-nitropropane
	18	Contains only 2-Ethoxyethanol
F025	19	Light ends
	20	Spent filters/aids and desiccants
K006	21	Anhydrous
	22	Hydrated
U151	23	Nonwastewaters that contain >260 ppm total mercury
	24	All U151 wastewaters
K071	25	Nonwastewaters that are residues from RMERC
	26	Nonwastewaters that are not residues from RMERC
	27	All K071 wastewaters
P047	28	4,6-Dinitro-o-cresol
	29	4,6-Dinitro-o-cresol salts
P065	30	Nonwastewaters, not incinerator or RMERC residues
	31	Nonwastewaters from RMERC with less than 260 ppm mercury
	32	Nonwastewaters from incinerator residues with less than 260 ppm mercury
	33	All P065 wastewaters
P092	34	Nonwastewaters, not incinerator or RMERC residues
	35	Nonwastewaters from RMERC with less than 260 ppm mercury
	36	Nonwastewaters from incinerator residues with less than 260 ppm mercury
	37	All P092 wastewaters
U240	38	2,4-D (2,4-Dichlorophenoxyacetic acid)
	39	2,4-D (2,4-Dichlorophenoxyacetic acid) salts and esters

**TABLE 3 - CALIFORNIA LIST WASTES**

- |  |                             |
|--|-----------------------------|
| 1) PCB > or = 50 ppm                                   | 3) Nickel > or = 134 mg/l   |
| 2) Halogenated Organic Carbon (HOC's) > or = 1000 mg/l | 4) Thallium > or = 130 mg/l |

**TABLE 4 - REGULATED CONSTITUENTS FOR F001 – F005**

- |                                 |                                   |   |
|---------------------------------|-----------------------------------|---|
| 5) Acetone                      | 15) Ethyl Acetate                 | 24) Pyridine                              |
| 6) Benzene                      | 16) Ethyl Benzene                 | 25) Tetrachloroethylene                   |
| 7) N-Butyl Alcohol              | 17) Ethyl Ether                   | 26) Toluene                               |
| 8) Carbon Disulfide             | 18) Isobutanol (isobutyl alcohol) | 27) 1,1,1 Trichloroethane                 |
| 9) Carbon Tetrachloride         | 19) Methanol                      | 28) 1,1,2 Trichloroethane                 |
| 10) Chlorobenzene               | 20) Methylene Chloride            | 29) 1,1,2 Trichloro 1,2,2 Trifluoroethane |
| 11) Cresols (o, m or p isomers) | 21) Methyl Ethyl Ketone           | 30) Trichloroethylene                     |
| 12) Cresylic Acid               | 22) Methyl Isobutyl Ketone        | 31) Trichlorofluoroethane                 |
| 13) Cyclohexanone               | 23) Nitrobenzene                  | 32) Xylene (Total)                        |
| 14) 1,2-Dichlorobenzene         |                                   |   |

**Land Disposal Restriction Form**  
**2005 Revision**  
**Instructions for Completion**

- 1) Enter the number of pages used, not including the Table 1 through Table 4 attachments. This will need to be entered on each page.
- 2) Enter the name of the generator, as it appears on the manifest, on each page of the land ban.
- 3) Enter the generator's EPA ID number on page 1.
- 4) Enter the generator's address, as it appears on the manifest, on page 1.
- 5) Enter the manifest document number on each page. Note that federal regulations require that this be a **5-digit** alpha-numeric on hazardous waste manifests.
- 6) Enter the state manifest document, if any, on page 1.
- 7) Check the appropriate box on page 1 indicating whether waste analysis has been performed.
- 8) Indicate the manifest line for each line of hazardous waste on the manifest. [i.e. 11a, 28d(2), 28c(5) etc.]
- 9) Indicate the profile number for each line. Waste should not be shipped until the profile is approved, recertified as needed, and any addenda submitted have been approved by the profile committee.
- 10) Indicate the appropriate RCRA waste codes for each line item. (Or "none" for non-hazardous wastes.)
- 11) Indicate any subcategory codes from Table 2 which apply to these waste codes. If none apply, put NA in this box.
- 12) Indicate whether the material is a wastewater (ww) or non-wastewater (nww). A wastewater is any material which contains <1% by weight total organic carbon and <1% by weight total suspended solids. [40 CFR 268.2(f)]

13) Indicate whether the waste contains any of the California list materials from Table 3. Note that neither Morgantown nor Calvert City is permitted to accept PCB waste greater than 50 ppm. If the material is manifested to either AES facility, there should **never** be a 1 listed in this column.

14) Indicate regulated solvents and underlying hazardous constituents for each line item from tables 4 and 1 respectively.

- For each F001 through F005 code you must indicate at least one solvent from Table 4 which matches that waste code. Note that the F001 and F002 solvents are the same. F001 should apply only when those solvents have been used in degreasing operations. Any other use for the solvent should result in the use of F002.
- If there are no D001-D043 codes on the line item, do not list any UHC's. If the material has a D001 code and is not an oxidizer, do not list any UHC's. If the material has a D001(ox)-D043, list any Z code from Table one which applies. Note that any material for which there is already a waste code attached is not a UHC. For example, if the material has a D008 code for lead, you do not need to list Z249 in this box.

15) Place an "A" in the certification box for all wastes bearing EPA codes. Place an "NA" in this box for all wastes which do not have an EPA waste code. Other certifications may apply in special circumstances. Please contact Corporate Compliance before using any code other than "A".

16) Have the generator fill out the appropriate items at the bottom of page 2 and ensure that one copy of the land ban remains with the generator and one copy accompanies the load.

Each hazardous waste manifest must have a land ban attached during shipment and to be received at the designated facility. Bills of Lading or manifests carrying only non-hazardous waste do not require a land ban.