



UNITED STATES MARINE CORPS

MARINE CORPS AIR STATION
BOX 99100
YUMA, ARIZONA 85369-9100

StaO 6280.3D

3VA
03 NOV 1997

STATION ORDER 6280.3D

From: Commanding Officer
To: Distribution List

Subj: HAZARDOUS WASTE MANAGEMENT PLAN (HWMP)

Ref: (a) Federal Water Pollution Control Act, 33 USC 1251 (NOTAL)
(b) Resource Conservation and Recovery Act (RCRA), (PL-94-580)
42 USC 6901-6987 (NOTAL)
(c) Code of Federal Regulations, Title 40, Protection of
Environment (NOTAL)
(d) Arizona Administrative Code, Title 18, Environmental
Quality (NOTAL)
(e) Code of Federal Regulations, Title 49, Department of
Transportation (NOTAL)
(f) Clean Air Act of 1990 (CAA)
(g) MCO 4570.24A
(h) MCO P5090.2
(i) ABO 11345.1F
(j) ABO 5090.1B
(k) StaO 5040.4B
(l) StaO 6280.6
(m) StaO 6280.8

Encl: (1) Hazardous Waste Management Plan
(2) Environmental Area of Responsibility/Rogue Drums

1. Purpose. To establish procedures for the handling, transfer, and disposal of hazardous materials and hazardous wastes in a manner that protects assigned personnel, the surrounding community, and the environment.

2. Cancellation. StaO 6280.3C.

3. Background. References (a) through (e) outline Federal and State regulations on hazardous material operations and prescribe procedures for the protection of human health and the environment. References (f) through (l) outline Marine Corps regulations. Federal and State laws define the discharge, deposit, injection, dumping, spilling, leaking, or placing of any solid waste or hazardous waste into or on any land or water so that such substance may enter the environment or be emitted into the air or discharge into any water, including ground waters, as a

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violation. The environment is defined as any surface water, ground water, drinking water supply, land surface, subsurface strata, or ambient air within the United States.

4. Information. This program is of extreme importance as evidenced by the heavy penalties associated with non-compliance. Per references (c) and (d), violators may be fined up to \$25,000 per day, imprisoned for up to one year, or both. Any known or suspected hazardous material shall be handled per this Order, unless specifically excluded. Furthermore, any equipment or material shall also be handled according to the procedures described herein. Enclosure (1) contains all the information required for hazardous waste/hazardous material operations and generator standards for Marine Corps Air Station (MCAS) Yuma. Enclosure (2) provides environmental areas of responsibility and proper procedures for the handling, sampling, testing, recovering, and disposing of rogue drum(s) and cost incurred responsibilities.

5. Action

a. All organizations aboard MCAS Yuma are responsible for strict compliance with this Order. Per reference (g) and the passage of the Federal Facilities Compliance Act of 1992, every Commander may be held personally liable for his Command's actions and/or failure to act regarding compliance with all environmental regulations. Notices of Violations (NOV), Notices of Non-compliance (NON) and fines received by MCAS Yuma will be assessed from the responsible Command. Violations of this Order may be punishable under the Uniform Code of Military Justice.

b. Each NOV and NON issued by MCAS Yuma Environmental Compliance and Protection Division shall be corrected immediately. All NOV's and NON's issued will be closely monitored for proper correction. Corrective action must be communicated to the Commanding Officer, MCAS Yuma, in writing, by the date indicated on the NOV/NON form. Commands/Departments utilizing contractor personnel or having contractor personnel under their supervision shall inform the Environmental Department of any and all activity that generates or has the potential to generate hazardous waste aboard MCAS Yuma or any of the property under the control of MCAS Yuma Commanding Officer.

c. Station Department Heads and Commanding Officers, including activities which utilize hazardous material and/or generate hazardous waste shall establish the following positions within their respective commands as described in enclosure (1).

(1) Hazardous Waste Officer.

(2) Hazardous Waste Managers (Group level only).

(3) Hazardous Waste Coordinators and their Alternates.

(4) Hazardous Waste Safety Monitors.

d. Appointment letters designating personnel to fill the above positions shall be forwarded to the Station Environmental Department within 30 days of the date of this Order and whenever personnel changes occur. All personnel assigned to these positions shall attend the 40-hour Hazardous Waste Management Training Course within 90 days of appointment. Personnel who fail to complete the required training within the 90 days must be removed from that position. See Figure (8).

e. Per reference (b), Hazardous Waste Coordinators, Alternates, and Officers shall be listed in the unit's Site Specific Contingency Plan, by name, per Title 40, Code Of Federal Regulations (40 CFR) 265, Subpart D.

6. Hazardous Waste Management Committee

a. A Hazardous Waste Management Committee is hereby established with membership as follows:

Chairman: Environmental Director, Environmental Department

Recorder: Environmental Compliance Director

Members: Hazardous Waste Officers/Coordinators
Environmental Compliance Officers
DRMO Hazardous Waste Coordinator

b. Duties and responsibilities of the Hazardous Waste Management Committee are outlined in enclosure (1) Section 2.

c. Environmental Compliance Officers appointed by the Commanding Officer, MCAS Yuma, shall conduct oversight inspections and ensure compliance with this Order. Units violating this Order will be issued NOVs which will be forwarded to the unit Commanding Officer for immediate corrective action with a copy to the Commanding Officer, MCAS Yuma.

d. The Director of the Environmental Department is charged with the overall responsibility for implementation of this Order.


C. J. TURNER

DISTRIBUTION: B plus 3VA (25)

**HAZARDOUS WASTE MANAGEMENT PLAN
MARINE CORPS AIR STATION YUMA, ARIZONA**

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SECTION 1: DEFINITIONS

1. Hazardous Substance (HS). A material identified in 40 CFR 116-117, or listed in either 40 CFR 302, Table 302.4, or in Appendix A to the Hazardous Materials Tables in 49 CFR 172.101.
2. Hazardous Material (HM). A substance or material, including a hazardous substance, which has been determined by the Secretary of Transportation to be capable of causing an unreasonable risk to health, safety, and property when transported in commerce, and thus, has been so designated.
3. Hazardous Waste (HW). A solid waste that is not excluded by 40 CFR 261.4(b) or a solid waste that:
 - a. Exhibits a characteristic listed in 40 CFR 261 Subpart C.
 - b. Is listed in 40 CFR 261 Subpart D.
 - c. Contains a mixture of a solid waste and a HW.
 - d. Is not excluded as a HW.
4. Solid Waste. Any discarded material that is not excluded by 40 CFR 261.4(a) or is not granted variance under 40 CFR 260.30 and 260.31.
5. Generator. The unit generating the waste or the unit who first caused a material to become subject to regulations as a HW.
6. Satellite Accumulation Area. A container modified to accept an inner container, used to accumulate HW, at or near the point of generation, which is under the direct control of the operator generating the waste.
7. Generator Accumulation Area. A concrete area, designed with secondary container, used as an intermediate accumulation area (holding area) for waste transferred from satellite accumulation areas, awaiting turn-in to the Environmental Department.

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SECTION 2: RESPONSIBILITIES

1. General

a. The following Commanding Officers will appoint HW Officers for their respective commands:

Headquarters and Headquarters Squadron (H&HS)
Marine Wing Support Squadron-371 (MWSS-371)
Marine Aircraft Group (MAG-13)
Marine Aviation Weapons and Tactics Squadron-1 (MAWTS-1)
Marine Air Control Squadron-7 (MACS-7)
Marine Fighter Training Squadron-401 (VMFT-401)
Combat Service Support Detachment-16 (CSSD-16)

b. Each command shall appoint HW Coordinators. In addition, Group level commands shall appoint HW Managers.

c. These designations shall be made, in writing, and forwarded to the Environmental Department (Code 3VA), within 30 days from the date of this Order and as personnel changes require. Updates of these assignments will be made to the Environmental Department as changes occur.

d. HW Officers shall notify the Environmental Department, in writing, 45 days prior to any unit deploying from their command. This will allow for the closing of their HW accumulation pads.

2. Environmental Department (Compliance and Protection Division (3VA3))

a. The Environmental Department Compliance Division is tasked with the management, proper disposal of HW, and overall coordination of HW operations, which includes the reduction of HW through the MCAS Yuma Pollution Prevention Plan (PPP).

b. The Environmental Compliance Director will:

(1) Be notified of any emergency or spill situation involving HW/HM in any amount, and report all HW spills of reportable quantities to Federal and State regulators.

(2) Approve/disapprove all generator satellite accumulation sites.

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(3) Develop and coordinate initial and annual training for personnel involved in HW operations who are providing technical assistance to any unit involved in HW operations.

(4) Function as representative for Commanding Officer, MCAS Yuma, for all HW matters.

(5) Provide technical assistance as required for all commands, including tenant commands and visiting squadrons.

(6) Recommend individuals to the Commanding Officer for appointment as Environmental Compliance Officer.

(7) Ensure that the HW generator's accumulation pads are properly documented, as required.

(8) Coordinate handling of all unidentified drums of HW.

(9) Implement a program to ensure testing of each waste stream as required by reference (c).

(10) Maintain copies and monitor tracking of HW manifests.

(11) Provide information to the Supply Department regarding those materials that should be handled under the procedures set forth in this Order.

(12) Conduct quarterly HW Management Coordinator meetings to provide information on environmental compliance. Research and discuss all pertinent HW issues.

3. Environmental Compliance Officer

a. The following personnel are MCAS Yuma, Commanding Officer's assigned Compliance Officers:

(1) Fred Daniel.....at extension 2809.

(2) Jon Buehler.....at extension 3460.

(3) Dave Rodriguez.....at extension 3161.

(4) Frank Altieri.....at extension 2605.

b. The Compliance Officers are the only personnel authorized to sign HW Manifests.

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c. These officers will conduct random, daily, announced/ unannounced site compliance visits throughout the Air Station.

d. In cases where violations are noted, the Compliance Officer will immediately notify the Senior Marine on site to take corrective action. The unit's HW Coordinator must be notified of the violation(s). In cases where, after ample time has elapsed, and corrective action has not been taken by the unit, an on-the-spot Notice of Violation with recommendation(s) for corrective action will be issued by the Compliance Officer. See Figure (13).

e. All Compliance Officers will be assigned, in writing, by the Commanding Officer, MCAS Yuma.

4. HW Management Committee

a. Organize, as needed, a Station Environmental Compliance Review Board (ECRB) to consider current environmental compliance and protection issues. The board shall assist in the development of environmental policy to be implemented through appropriate Station Orders. It should strive to maintain awareness of the importance of environmental compliance and protection in all operations, training, and other activities.

5. HW Officers. Will be responsible for the overall management of their Command's HW program.

a. All HW Officers shall attend the HW Management Training Course conducted by the Environmental Department within 90 days of appointment, and are required to attend HW Coordinator meetings, as published.

6. HW Managers (Group Level). Are directly responsible to the HW Officer for management and coordination of HW programs at the Group Level for all their subordinate units. Shall comply with the following regulations:

a. Ensure all generators within their organization are following HW regulations.

b. Conduct daily inspections of accumulation areas using the checklist provided in Figure (3).

c. Conduct weekly and post-storm/high wind inspections using the checklist provided in Figure (3) .

d. Conduct monthly inspections of all units' HW inspection records to ensure that the inspections are accurate.

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- e. Attend the HW Management Training Course within 90 Days of Appointment.
- f. Attend Hazardous Waste Coordinator meetings as published.
- g. Ensure that all inspection records are readily available for review.
- h. Report immediately all spills of HW and HM to the Environmental Department, and follow up with a written report within 24 hours.

7. Hazardous Waste Coordinators. HW Coordinators and their alternates are responsible for the daily HW operations. They are directly responsible to the HW Officer and HW Manager, if applicable. HW Coordinators shall be responsible for the following:

- a. Ensure compliance with all generator's responsibilities at the generating level.
- b. Attend the Hazardous Waste Management Training Course within 90 days of appointment, per reference (b).
- c. Attend Hazardous Waste Coordinator meetings as published.
- d. Inspect accumulation areas daily/weekly after high winds and post storm for spills and potential hazards using the checklist provided in Figure (3).
- e. Ensure proper completion of the HW turn-in document (DD Form 1348-1A), HW profile sheet, and all supporting documents for turn-in. All turn-in documents will be reviewed by the Station Environmental Department, Compliance Division, prior to turn-in.
- f. Maintain training records to include a written job description of each employee, by name, and include a summary of the type of initial training and any annual training that must be completed by the employee. These training records must be maintained for at least five years after the employee has either been transferred or is no longer employed by MCAS Yuma.

8. Safety and Occupational Health Department (SOHD). The Director, SOHD, will receive Material Safety Data Sheets (MSDS) from the Supply Department. Using this information, SOHD will provide training under the Hazard Communication Program, evaluate employee exposure, and monitor status of personal protective equipment.

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9. Supply Department

a. Ensure all HM received includes proper labeling, documentation, and is in proper condition. Containers which appear to be leaking at the receiving docks will not be accepted. Immediately notify the Environmental Department when a leaking container arrives.

b. Forward all instructions and MSDSs on all HM/HW to the end user with a copy to the SOHD. This is to ensure that all safety precautions are followed from delivery of HM to final disposal as HW.

c. Ensure that personnel who handle the HM attend the Hazardous Waste Management Course within 90 days of job assignment.

10. Defense Reutilization and Marketing Office (DRMO)

a. Take appropriate actions to dispose of HW from each transfer facility in conjunction with the Environmental Department.

b. Accept direct turn-in of HM (i.e., out of date, rusty, unused materials) via DD Form 1348-1A.

c. Comply with all Federal, State, and local regulations and this Order.

d. Schedule HW pick-up via contractor (prior to actual removal with the Environmental Department). Pick-ups after normal working hours must be approved by the Environmental Director at least 24 hours before pick-up.

11. Generators. The generator is responsible for coordinating directly with the Environmental Department for guidance on HW management. Additional guidance inquiries to the Environmental Protection Agency (EPA) or Arizona Department of Environmental Quality (ADEQ) will be directed to the Environmental Department at extension(s) 3201/2809. The generator must ensure that:

a. All HW turned in shall be in transportable condition (i.e., clean, non-leaking containers or packages). These packages must conform to the new Department of Transportation (DOT) requirements for Performance Oriented Packaging (POP).

b. Leaking containers shall be transferred in their entirety into non-leaking containers that are DOT approved and made of or lined with materials which are compatible (non reactive) with the HW being stored.

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c. Overpacked drums are not authorized for shipment to the Environmental Department.

d. Proper DOT containers are obtained through their supply system. Any other items required for the management of HW, such as absorbent (Speedy Dry) used for spill clean up is also the generator's responsibility. The Environmental Department will provide containers and other materials on an emergency basis only subject to replenishment by the generator.

e. All necessary documents (chemical analysis, waste profile sheets, MSDSs, and additional information as requested). In addition, personnel and transportation will be provided to turn in HW from their unit. The generator shall comply with all Federal, State, local regulations, and this Order.

f. HW containers that have exceeded 55 gallons in the Satellite Accumulation Area will be moved within 72 hours to Building 303. If this cannot be accomplished, due to operational commitments or unforeseeable complications, the generator's 90 day HW accumulation area is authorized for use until such time that the transfer to Building 303 can be completed. At no time shall the waste be left on the accumulation area for more than five working days. The generator must ensure that:

(1) A written plan of procedures to prevent unauthorized entry to the HW accumulation area be maintained.

(2) HW containers be kept closed and secured at all times except during transfer operations.

g. The generator is responsible for any HW violations as noted by Federal, State, local regulations, and this Order.

h. The negligent or intentional discharge of any hazardous substance, including petroleum products, onto any soil, asphalt, concrete, metal, wood, water, or any other surface area is a violation of this Order.

i. The use of unapproved containers or the failure to follow generating, labeling, transfer, and disposal procedures specified herein is a violation of this Order.

j. Costs incurred in the correction of any violation of regulations and this Order, including spill containment and cleanup operations, will be charged to the violating unit.

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k. Individuals responsible for a violation of regulations or this Order, whom incur public fines or other legal actions will be pursued via the appropriate Command, legal, and administrative channels.

l. Violations of the provisions of this Order may be punishable under the Uniform Code of Military Justice and appropriate State and Federal laws.

12. Activity Safety Section. The waste generating organization's Safety Section will be responsible for the establishment and implementation of safe work practices and the selection, issue, and enforcement of the material used.

a. Responsibility begins when the material is accepted for use at the job site and ends when the material is properly packaged and ready for transfer from the HW satellite accumulation areas.

b. Personal protective equipment listed on the MSDS are generic in nature, and the recommendations extracted from the MSDS are intended to be used as a guide by emergency responders faced with a spill situation. They are not necessarily intended to be directed to the end user or personnel handling or transporting the containers, unless specified as Special Handling Materials.

13. Specific questions may be directed to the Environmental Department, extension(s) 3201/5580, or the Station Industrial Hygienist, extension 3610.

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SECTION 3: INSPECTIONS

1. HW Manager. The HW Manager is responsible for the following:
 - a. Conduct monthly inspections of all accumulation areas using the checklist provided in Figure (1) or its equivalent.
 - b. Provide a copy of the inspection report to the responsible section and the Squadron Commanding Officer.
 - c. Work with the responsible unit to correct any deficiencies within 10 working days of the date of inspection.
 - d. Conduct monthly, unannounced spot inspections of all units' HW inspection records.
 - e. Ensure the inspection results are accurate.
 - f. Ensure compliance with this Order.
 - g. Document spot inspection results and corrective actions implemented within 10 working days of the date of inspection.
 - h. All inspection records must be kept on file for five years. Inspection records must be readily available for review.
2. HW Officer. When there is no designated HW Manager, the HW Officer will be responsible for ensuring that the above criteria is met.
3. HW Coordinator. The HW Coordinators and Alternates will be the initial responders in their units' HW Site Specific Spill Contingency Plan and are responsible to the HW Officer or Manager. They ensure compliance with all generator responsibilities during their respective work shifts. Daily inspections of their unit's HW/HM storage will be performed using Figure (3). Weekly inspections of their unit's HW/HM storage will be performed using Figure (3).
4. Environmental Department. Using Figure (1), conduct random, unannounced, spot inspections of each activity's inspection records and operating logs and facilities. Results of these inspections will be documented, and a formal report will be forwarded within five working days to the unit's Commanding Officer, via the chain of command. A copy of the inspection report will be given to the unit's HW representative immediately upon completion of the inspection. All inspection reports require that a

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written response be submitted by the unit within 10 working days from the date of the inspection, describing the corrective action taken on any discrepancies noted. These reports will be submitted to the Commanding Officer, MCAS Yuma, (Via: Environmental Director). Those discrepancies that may result in NOV's from Federal, State, or local regulatory agencies require immediate corrective action.

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SECTION 4: HAZARDOUS WASTE (HW) IDENTIFICATION

1. Waste Analysis Plan. As required by references (c) and (d), all generators must accurately identify their HW. HWS are identified and characterized by the generating unit, with assistance from the Environmental Compliance Division, as needed.

a. Where the characteristics of the waste are sufficiently known to properly identify and label, HW will not be analyzed.

b. If material is presented for disposal which cannot be sufficiently characterized, it will be subjected to a qualitative screening to determine if it has hazardous properties.

c. The screening begins with a review of the origin of the material to determine if it is a listed HW identified in 40 CFR 261.31 through 40 CFR 261.33(e) and (f).

d. If the material is not a listed waste, is not excluded under 40 CFR 261.4(a) or (b), nor granted a variance under 40 CFR 260.30 and 260.31 and listed in Appendix IX, then it is the responsibility of the generating unit to determine if it exhibits one or more of the characteristics of a HW contained in 40 CFR 261.21 through 261.24 Table I. These characteristics are:

- (1) Ignitability (I).
- (2) Corrosivity (C).
- (3) Reactivity (R).
- (4) Toxicity Characteristics Leachate Process (TC).

e. Representative sampling shall be conducted of all waste streams according to the criteria described in 40 CFR 264.13. The analytical methods shall be according to those listed in 40 CFR 261 and 268.7. The following applies:

(1) Sampling will be conducted by qualified personnel only.

(2) Once properly identified, the drum will be marked, labeled, and moved into an appropriate area in the generators accumulation pad with an accumulation start date.

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(3) Drums initially determined to be unsafe to move will be either transferred to a new container or overpacked, properly identified, and then moved into an appropriate HW accumulation area. The drums will then be disposed of as empty.

(a) Drums collected at or on the Barry M. Goldwater Air Force Range (BMGAFR) will be accumulated at the Cannon Complex.

(b) Drums collected at the Chocolate Mountain Aerial Gunnery Range (CMAGR) will be accumulated by the Range Management Department (RMD) at the Camp David site, on the CMAGR.

(c) Rogue Drums collected aboard MCAS Yuma will be accumulated at the Rogue Drum accumulation area, Building 483.

2. Drum Identification. Per references (c), (d) and (e), containers will be labeled with all the information complete and legible at all times. All units aboard MCAS Yuma, including all visiting squadrons, shall label and mark their drums in the following manner:

a. Hazardous waste markings will have legible entries made in indelible ink/paint.

(1) The "Generator Name" block should reflect the appropriate origin.

(2) The "EPA #" block should be left blank.

(3) The "Date of Accumulation" block must reflect the calendar date (YYMMDD) that HW begins accumulating on the generator's accumulation area. However, for the satellite accumulation areas, the date reflects when the 55 gallon limit exceeded, or one quart of acute HW is collected.

(4) Do not fill in the "Acceptance at TSDF" and "Manifest Document #". These are completed by the Environmental Department.

(5) It is the generator's responsibility to obtain HW stickers and hazard class labels.

b. The appropriate label must be affixed to the drum, (i.e., Poison, Oxidizer, etc.), to include subsidiary hazard warning labels. Unused HM to be discarded as unfit for the reutilization cycle or having completed the reutilization cycle and is not HW, will be labeled as required.

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c. The "Date of Accumulation" will be the date of transfer of the unused HM to the accumulation area.

d. Hazard class labels (i.e., flammable, corrosive, etc.) will be used.

e. Drums of unknown origin will be marked as Hazardous Waste with the "Accumulation Start Date", the date the drum was discovered.

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SECTION 5: HAZARDOUS WASTE ACCUMULATION (90 DAY) SITES

1. Generator Accumulation Areas

a. Approval. All generator accumulation areas must be approved by the Environmental Department. Upon approval, a number will be assigned to the site. A sign must be posted at the site, be visible within 25 feet, and be written in English and Spanish. The sign must be marked with the words, "Generator Accumulation Area", stating the approval number assigned by the Environmental Department. These signs are available at the Facilities Management Department, via work request.

b. Criteria. Criteria for all generator accumulation areas, new and existing, are as follows:

(1) The areas must meet all the requirements listed in Figure (6). Geographical location on a site depends on variables such as a drain location, nearby buildings, and fire lanes. The site must meet the specifications of the Environmental Department and the Station Fire Department. The request for the site location is accomplished by submitting Figure (7).

(2) A layer of tarp and a layer of plastic must first be put down when building a new site unless there is a permanent concrete area already built on site. Permanent concrete sites must have a sump hole to catch the overflow from spills.

(3) All sites must have a four inch berm made of concrete, or a minimum six inch berm for sand bags, and must be able to contain the total volume of the largest container or 25 percent of the total capacity of all the containers in the accumulation area, whichever is larger. This secondary containment must not be exceeded.

(a) Berms must be free of cracks, breaks, holes, or other flaws that would not prevent the migration of HW into the soil, water or environment in an other than authorized manner.

(4) Roof protection is highly recommended due to the extreme temperatures in this region, but is not a requirement.

(5) Signs to be posted on site to read:

(a) Generator Accumulation Area.

(b) Unit Name.

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(c) No Smoking within 50 feet.

(d) Danger (in English and Spanish).

(6) Fire extinguishers on site must be approved by the Environmental Director and the Station Fire Department, via memo. Use Figure (7) to request a fire extinguisher.

(7) All areas must have at least a 20-foot clearance on all sides around fenced areas to allow for access by fire fighting personnel.

(8) All areas must be kept clean (including sumps) and free of dirt and debris at all time.

(9) The accumulation areas will remain locked except during the transfer of HW. The HW Coordinator/Alternates will control access through sole possession of the keys.

(10) HW containers must be kept closed and secured at all times except during transfer operations.

(11) Areas used for the accumulation of HW will not be used for any other purpose.

2. Satellite Accumulation Areas (SAA). Satellite accumulation will be used in all areas except where the impracticality can be demonstrated. The Environmental Department will authorize SAAs provided that all requirements are met as outlined in Figure (5).

a. The SAA will remain locked except during the transfer of HW. The HW Coordinator/Alternates will control access through sole possession of the keys.

b. Figure (9), provides all current authorized SAAs.

ENCLOSURE (1)

SECTION 6: HAZARDOUS WASTE DISPOSAL

1. Spill Prevention Control and Countermeasure Plan. The Station Spill Prevention Control and Countermeasure Plan (SPCC), is located in the Environmental Department and available upon request to any unit needing assistance with the accumulation, spill response, containerization, or secondary containment of POLs.

Note: It is the responsibility of the generator to immediately report all spills, regardless of type and quantity, to the Environmental Department, at extension(s) 3201 or 5580. In addition, Crash/Fire Rescue at extension 2385, will also be notified of spills on the Flight Line.

2. Rogue Drums. Generators will immediately notify the Environmental Department upon discovery of any unidentified drums. If the drum is located at, or near the generator's area of responsibility, the generator will take possession of the drum and lock it in its perspective HW accumulation area. The words, "Hazardous Waste", will be placed on the drum with an accumulation start date on the date that the drum was discovered. It will be the responsibility of the generator to dispose of the drum.

3. Uniform Hazardous Waste Manifest. The Uniform Hazardous Waste Manifest (UHWM), Figure (13), shall be utilized when hazardous waste is to be transported over a public highway. The UHWM will be prepared in accordance with 40 CFR 262, Subpart B. Only those personnel authorized in writing by the Commanding Officer, MCAS Yuma, shall sign the UHWM in Block 16, certifying the shipment.

a. Shipments of HW from the Cannon Complex to the Air Station are not authorized. In addition, all fuel spills in California must be manifested.

b. Questions and assistance regarding this matter should be directed to the Environmental Department, extension(s) 3201/5580.

4. Accumulation Time Frame. When the HW is ready for transfer to a 90 day accumulation area, the first priority will be to arrange with the Environmental Department to accept the waste at Building 303. If arrangements cannot be made within the mandatory 72 hours, the HW can be placed in the unit's 90 day HW accumulation area for a total of five working days. Then notify the Environmental Department that the waste is ready for transfer. Documentation for the waste will be completed by the unit coordinator and made available for inspection by Environmental personnel. In order to ensure compliance with this requirement, the following procedures will be followed:

ENCLOSURE (1)

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a. Generating units will notify the Environmental Department for inspection of HW containers when the accumulation start date begins.

b. If any container has not been removed from the satellite accumulation area by the 4th calendar day, following the accumulation start date, then the Environmental Department and the HW Officer shall be contacted. If the waste is ready for delivery, the generator will be given an appointment time to deliver the waste to Building 303. The Environmental Department will take possession of the waste, provided the waste is accompanied by a DD Form 1348-1A, Hazardous Waste Profile Sheet, and any other supporting documents.

5. Small Container Disposal. The disposal policy for empty paint containers and oil filters is as follows:

a. Empty paint containers no larger than five gallons will be crushed and disposed of in regular dumpsters provided that, 1) only a thin layer of paint remains; 2) they are completely dry so that no toxic or ignitable vapors arise from them; and 3) no other extraneous hazardous wastes are present. Aerosol paint cans will be punctured, drained and/or crushed and disposed of in dumpsters. Paint containers not meeting all of the above criteria must be managed as HW. Any questions should be directed to the Environmental Department, extension(s) 3201/5580. Paints and paint residues containing acutely hazardous substances must be disposed of as HW.

b. Empty aircraft oil and hydraulic fluid containers (including plastic) can be disposed of in regular dumpsters provided they are thoroughly drained for 24 hours and crushed. Containers not meeting the above criteria must be managed as HW.

c. One and five gallon empty containers of solvents can be disposed of in regular dumpsters provided that the containers are drained into a HW drum, no residue remains in the container, and the container is completely dry inside. Containers not meeting the above criteria must be managed as HW. All solvents and their containers that meet the definition of an acute hazardous waste must be treated as HW.

d. Used oil filters may be disposed of in regular dumpsters provided the filters are drained into an authorized container (i.e., five gallon drum) for a minimum of 24 hours. Filters not meeting the above criteria must be managed as HW.

ENCLOSURE (1)

SECTION 7: AIR QUALITY

1. Volatile Organic Compounds (VOC) Emissions and Spray Paint Operations

a. VOCs are regulated under the Clean Air Act of 1990. These compounds are emitted from various sources on board MCAS Yuma.

b. Spray paint operations are large distributors of VOCs. According to Arizona Regulations, the following rules apply:

(1) No person shall conduct any spray paint operations without minimizing organic solvent emissions. Such operations, other than architectural coating and spot painting, shall be conducted in an enclosed area equipped with controls containing no less than 96 percent of the overspray. (NOTE: Spot painting is defined as no more than 10 percent of the total surface.)

(2) If it becomes necessary to conduct spray paint operations other than architectural (i.e., aircraft), the following guidelines must be followed:

(a) Notice of intent to paint (in writing) is provided to the Environmental Department five working days in advance. Waiver to the five day requirement may be submitted to the Environmental Department for review.

(b) Proper protective equipment is used at all times.

(c) Only high volume low pressure (HVLP) or electrostatic atomized sprayers will be used.

(d) Minimize the use of lacquer paints since they have VOC emissions which are typically three times higher than enamels or urethane paints.

(e) Use water based primers to the maximum extent practicable since they form thicker coating and require less coats. They emit about one third the amount of VOCs compared to organic solvent based primers.

(3) No person shall thin or dilute any architectural coating with a photochemically reactive solvent.

c. For the purpose of this section, a photochemically reactive solvent shall be any solvent with an aggregate of more than 20 percent of its total volume composed of the chemical compounds classified in subparagraphs (1)

ENCLOSURE (1)

through (3) of this subsection, or which exceeds any of the following percentages, compositions, and limitations referred to the total volume of solvents:

(1) A combination of the following types of compounds having olefinic or cyclo-olefinic type of unsaturation hydrocarbons, alcohol's, aldehydes, esters, ethers, or ketones: 5 percent.

(2) A combination of aromatic compounds with eight or more carbon atoms to the molecule except ethylbenzene: 8 Percent.

(3) A combination of ethylbenzene, ketones having branched hydrocarbon structures, trichloroethylene or toluene: 20 Percent.

d. Materials including solvent or other volatile compounds, paints, acids, alkalis, pesticides, fertilizers and manure shall be processed, stored, used and transported in such a manner, and by such means, that they will not evaporate, leak, escape or be otherwise discharged into the ambient air as to cause or contribute to air pollution. At no time will containers be intentionally left open to dry.

2. Particulate Matter (PM-10)

a. "PM-10" is particulate matter which measures 10 microns and under. It is known to cause adverse health effects, and attacks the respiratory system.

b. MCAS Yuma is designated as a non-attainment area for "PM-10", and in an effort to reduce the amount of "PM-10" generated, the following reasonably available control measures have been agreed to:

(1) Excavated soil piles are to be covered at all times.

(2) Street sweepers will only operate when the water system is working correctly.

(3) Speed limits on unpaved roads are limited to five (5) miles per hour.

(4) High power blowers are only used when other means are not available, or practical.

SECTION 8: UNDERGROUND STORAGE TANKS (UST)

1. Requirements for Hazardous Substance UST Systems

a. Any unit, department, or activity located at MCAS Yuma, under the direct control of the Commanding Officer, shall not bring into existence any UST, for the storage or holding of HW, without written permission from the Commanding Officer of MCAS Yuma. Such requests will be routed via the Director, Environmental Department, MCAS Yuma.

b. All operators of a UST system must comply with the requirements of all Federal, State, and local regulations to ensure that releases are prevented for as long as the UST system is used to store regulated substances.

2. UST Systems: Design, Construction, Installation and Notification. No person may install any UST system located in the boundaries of, or under the control of MCAS Yuma, when the owner is identified as the Commanding Officer, MCAS Yuma.

3. Performance Standards for New UST Systems. Any unit, department, or activity located at MCAS Yuma, under the direct control of the Commanding Officer, shall not bring into existence any UST without written permission from the Commanding Officer, MCAS Yuma. Such requests will be routed via the Director, Environmental Department, MCAS Yuma.

4. Upgrading of Existing UST Systems. The Commanding Officer of MCAS Yuma has expressed the desire to remove all remaining USTs aboard MCAS Yuma. All USTs shall be removed, and no upgrades to existing USTs will be allowed.

Note: An exception to the rule will be the three UST systems located at the Morale, Welfare and Recreation, Service Station.

ENCLOSURE (1)

SECTION 9: PETROLEUM CONTAMINATED SOILS (PCS)

1. Segregation

a. Generators shall segregate all soils from absorbent materials. In an effort to reduce the amount of solid waste produced, the generator will be required to accept recycled Speedy Dry equal to the contaminated amount deposited.

b. Generators shall segregate the constituents that cause the soil or absorbent material to become PCS. The only constituents allowed to be remediated at the Bio Remediation Cell are the following:

- (1) JP-5.
- (2) Diesel.
- (3) Gasoline.

c. Generators shall segregate spills which contain the heavier chain hydrocarbons such as oils, hydraulic fluids, or any petroleum based product from the lighter chain constituents listed above. These heavy oil spills will not be handled in the Bio Remediation Cell, but should be designated as a special/solid waste and handled as such for proper disposal.

d. Generators shall ensure that only soils and no other matter be placed in the containers.

e. Containers shall remain locked unless the generator or HW Coordinator is placing PCS in the container.

2. Turn-in Procedures

a. The generator shall contact the Environmental Department, MCAS Yuma, to schedule an appointment for disposal of PCS.

b. PCS will not be accepted after 1200 on Friday.

c. The generator will report to the Environmental Department, Building 228, for an initial inspection of the soil, which will be conducted by the Environmental Compliance Officers.

If the soil is clean and free of debris, signed certification by the generator will be witnessed by an Environmental Compliance Officer. Next, the generator will deliver the soil to the Bio Remediation Cell for deposit.

ENCLOSURE (1)

REQUIREMENTS FOR GENERATOR'S ACCUMULATION AREA

1. Drum Management

a. Ensure proper, durable markings on all drums meet the following requirements:

- (1) The words, "HAZARDOUS WASTE"
- (2) Identification of waste
- (3) Hazard class
- (4) Unit
- (5) Accumulation date (first drop of waste)

b. All drums will remain closed except during transfer operations.

c. No HW residue will be on the drum's exterior surface.

d. Drums will not be stacked.

2. Emergency Equipment

a. Emergency equipment will consist of the following:

- (1) Internal alarm systems (chimes, horns, voice, etc.)
- (2) External alarm systems (telephone, alarm box, etc.)
- (3) Fire extinguisher
- (4) Spill control equipment (broom, shovel, overpack, absorbent).

Note: Call Extension 3201 in the event of a HW spill.

- (5) Eyewash station
- (6) Copy of the Air Station's Spill Contingency Plan
- (7) Signs (No Smoking, etc.)

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3. Inspections. Ensure that the following inspection requirements are met:
 - a. Daily - To be conducted by unit HW Operator.
 - b. Weekly - To be conducted by unit HW Coordinator.
 - c. Monthly - To be conducted by HW Manager.
 - d. Post Storm/High Wind Conditions - To be conducted by unit HW Coordinator.

MEMORANDUM

From: Hazardous Waste Coordinator (Unit Name)
To: Fire Department
Via: Environmental Department (Code 3VA)

Subj: REQUEST FOR SITE APPROVAL FOR A GENERATOR'S ACCUMULATION AREA

Ref: (a) StaO 6280.3D

Encl: (1) Map showing proposed site location

1. Per the reference, request approval to establish a generator's accumulation area at the site shown in the enclosure. The following is a list of hazardous waste which will be stored within the area:

2. Point of contact is _____, extension _____.

(SIGNATURE LINE)

FIRST ENDORSEMENT on _____ memo of _____

From: Environmental Department
To: Fire Department

1. Recommended approval/disapproval of request.

(SIGNATURE LINE)

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3VA

From: Fire Department
To: Hazardous Waste Coordinator _____

1. Request has been approved/disapproved.
2. Fire Department assigns # _____ to this area.
3. Additional comments: _____

(SIGNATURE)

Copy to:
3VA

40 HOUR COURSE AGENDA

MODULES	DESCRIPTION
I	HW Problems
II	Laws and Regulations
III	Government Policies
IV	Hazardous Properties
V	Environment Health Effects
VI	Personnel Safety
VII	HW Identification
VIII	Generator Standards
IX	Storage In Tanks
X	Compatibility
XI	Contingency Planning
XII	DOT Regulations
XIII	Labeling
XIV	Packaging
XV	Handling
XVI	Transportation
XVII	Emergency Response

FIGURE 8

WASTE STREAM AND BUILDING NUMBER LIST

BUILDING	WASTE STREAM
97	OFF-SPEC MIXED USED PAINTS
97	SPENT FLUORESCENT LIGHT BULBS
97	UNIVERSAL WASTE BATTERIES/MAGNESIUM CARBON
101	SPENT FLUORESCENT LIGHT BULBS
103	SPENT FLUORESCENT LIGHT BULBS
103	WASTE PAINT MIXED WITH PAINT STRIPPER
109	SPENT FLUORESCENT LIGHT BULBS
112	OFF-SPEC CHEMICAL AGENT DETECTOR KITS
112	OFF-SPEC M258A1 SKIN DECONTAMINATION KITS
146	ALODINE 600
146	FLUORESCENT LIGHT BULBS
146	DISCARDED AEROSOL PAINT AND AEROSOL SAFETY SOLVENT
146	SPENT PAINT THINNER AND PAINT RESIDUE
146	SPENT BATTERY WASH WATER
146	SPENT TIRE WASH
146	SPENT 1,1,1-TRICHLOROETHANE USED IN DEGREASING
146	SPENT MERCURY BATTERIES (UNIVERSAL WASTE)
146	SPENT NICAD BATTERIES (UNIVERSAL WASTE)
150	SPENT FLUORESCENT LIGHT BULBS
151	FLUORESCENT LIGHT BULBS

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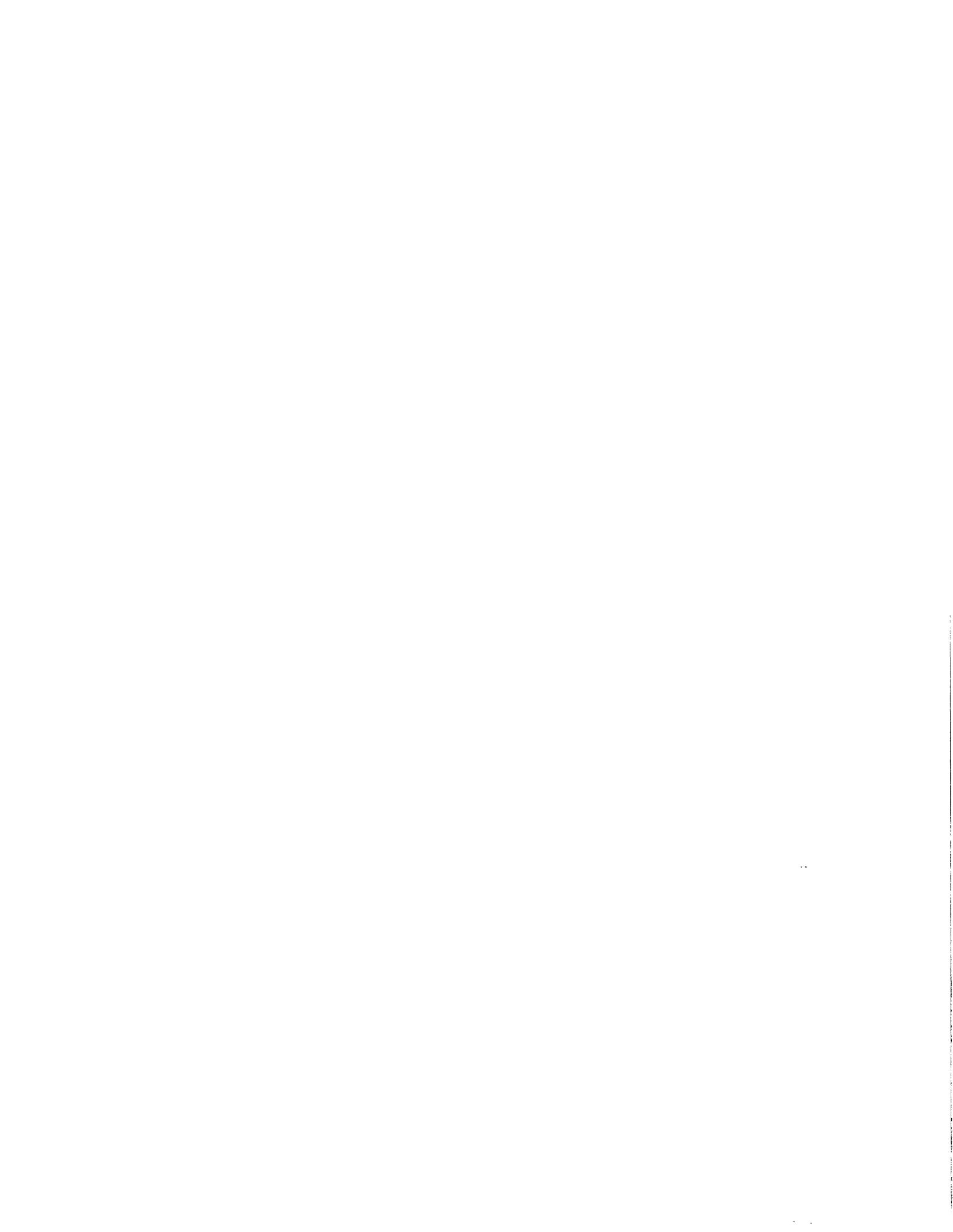
BUILDING	WASTE STREAM
153	SPENT FLUORESCENT LIGHT BULBS
202	FLUORESCENT LIGHT BULBS
202	UNIVERSAL WASTE BATTERIES/MERCURIC OXIDE SELL
202	UNIVERSAL WASTE BATTERIES/NICKEL CADMIUM
202	UNIVERSAL WASTE BATTERIES/MAGNESIUM CARBON
215	SPENT NICAD BATTERIES
215	SPENT FLUORESCENT LIGHT BULBS
220	SPENT LITHIUM BATTERIES
223	C2 CANISTERS
223	ABC-M18A2 CHEMICAL AGENT DETECTOR KIT
228	SPENT FLUORESCENT LIGHT BULBS
229	SPENT FLUORESCENT BULBS
230	PAINT BLAST GLASS BEADS
230	SPENT PAINT STRIPPER
230	SPENT WATER CARBON FILTER FROM NDI SHOP
230	AIRCRAFT SOAP CONTAMINATED WITH CADMIUM/CHROMIUM
230	WASTE PAINT THINNER
230	SPENT FLUORESCENT LIGHT BULBS
234	SPENT FLUORESCENT LIGHT BULBS
234	SPENT PAINT BLAST STEEL BEADS
234	SPENT PAINT BLAST MEDIA (GRIT)

BUILDING	WASTE STREAM
257	SPENT MAGNESIUM CARBON BATTERIES
324	SPENT FLUORESCENT LIGHT BULBS
08	SPENT FLUORESCENT LIGHT BULBS
420	FLUORESCENT LIGHT BULBS
458	SPENT FLUORESCENT LIGHT BULBS
480	SPENT RIFLE BORE CLEANER
490	FLUORESCENT LIGHT BULBS
494	SPENT FLUORESCENT LIGHT BULBS
508	SPENT DISPERSANT
508	SPENT FLUORESCENT LIGHT BULBS
508	SPENT NICKEL CADMIUM BATTERIES
530	DISCARDED DS-2 DECONTAMINATION KITS
530	OFF SPEC ABC-M18 CHEMICAL AGENT DETECTOR KIT
530	OFF-SPEC M256A1 SKIN DECONTAMINATION KITS
530	DISCARDED OFF-SPEC C2 CANISTERS
534	SPENT FLUORESCENT LIGHT BULBS
603	SPENT FLUORESCENT LIGHT BULBS
633	OUTBOARD MOTOR TEST TANK WASTE
633	SPENT FLUORESCENT LIGHT BULBS
633	SPENT PAINT THINNER
660	SPENT FLUORESCENT LIGHT BULBS

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BUILDING	WASTE STREAM
852	SPENT FLUORESCENT LIGHT BULBS
852	SPENT NICKEL CADMIUM BATTERIES
858	SPENT PAINT THINNERS AND PAINTS
880	FLUORESCENT LIGHT BULBS
888	SPENT FLUORESCENT LIGHT BALLASTS W/DEHP
888	SPENT FLUORESCENT LIGHT BALLASTS W/PCB'S
888	SPENT FLUORESCENT LIGHT BULBS
888	SPENT AIR CONDITIONER COMPRESSOR OIL
888	MIXED OIL BASED PAINTS WITH THINNERS
888	ASBESTOS WASTE FROM VARIOUS REMOVAL PROJECTS
912	SPENT FLUORESCENT LIGHT BULBS
980	SPENT FLUORESCENT LIGHT BULBS
1100	SPENT FLUORESCENT LIGHT BULBS
1175	FLUORESCENT LIGHT BULBS
1175	SILVER RECOVERY UNIT
3209	SPENT LITHIUM BATTERIES
3211	SPENT BATTERIES CONTAINING MERCURY
3211	METHANOL WATER SOLUTION USED TO CLEAN RADAR EQUIPMENT
3219	WASTE PAINT AND PAINT THINNER
3219	SPENT FLUORESCENT LIGHT BULBS

BUILDING	WASTE STREAM
3219	SPENT METHANOL WATER SOLUTION USED TO CLEAN RADAR
3219	OFF-SPEC M256-A1 CHEMICAL AGENT DETECTOR KIT
3219	OFF SPEC M258A1 SKIN DECONTAMINATION KITS
3223	M13A2 FILTER ELEMENT SET, CHEMICAL BIOLOGICAL MASK
3224	SPENT FLUORESCENT LIGHT BULBS
3236	SPENT METHANOL WATER SOLUTION
3244	SPENT FLUORESCENT LIGHT BULBS
3244	SPENT FILTER ELEMENTS FOR M17 CHEMICAL MASK
3244	SPENT AND OFF SPEC DECONTAMINATION KIT M280
3245	SPENT FLUORESCENT LIGHT BULBS
3245	SPENT SOLVENT (PARTS WASHER)
3245	SPENT ASBESTOS BRAKES AND GASKETS
3254	SPENT MAGNESIUM CARBON BATTERIES
3254	SPENT PAINT THINNER AND PAINT



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3VA

MEMORANDUM

From: Hazardous Waste Officer (Activity Name)
To: Fire Department
Via: Environmental Department

Subj: REQUEST FOR FIRE EXTINGUISHER(S)

Ref: (a) 40 CFR 265.32

Encl: (1) Map showing Accumulation Area

1. Per the reference, request you provide the appropriate fire extinguishers for my generator's accumulation pad. The following is a list of hazardous waste stored within my area:

2. The enclosed map identifies the location of my accumulation pad.

3. Point of contact is _____, extension _____.

(SIGNATURE LINE)

- - - - -
FIRST ENDORSEMENT on _____ memo of _____

From: Environmental Department
To: Fire Department

1. The above request has been reviewed by my department. Recommend approval/disapproval.

(SIGNATURE LINE)



MARINE CORPS AIR STATION UNIT RUC NUMBERS

MCC	RUC	UNIT
1JC	00013	MAG-13 COMMAND GROUP
1EH	00880	MACS-7, MACG, 38 3RD MAW
1EH	01190	MALS-13, 3RD MAW
1EH	01191	MAG-13
1EH	00371	MWSS-371
1EH	22961	HEADQUARTERS & SERVICE BATTERY
1EH	00880	BATTERY "A" MACS-7
1EH	00880	BATTERY "B" MACS-7
1EH	00880	BATTERY "C" MACS-7
1EH	00880	BATTERY "D" MACS-7
VAC	01291	MATCS-38, DET "A"
1A5	01243	MAWTS-1
V8A	01211	VMA-211, MAG-13
V8B	01214	VMA-214, MAG-13
V8C	01311	VMA-311, MAG-13
V8D	01513	VMA-513, MAG-13
VWA	05038	MWWU-1, MAG-13
VWB	62961	MWWU-3, MAG-13
027	02230	H&HS, MCAS YUMA
1F3	28357	1ST FSSG, DET-C
G61	0334	VMFT-401, 4TH MAW

FIGURE 11

PREPARATION OF AN EPA UNIFORM HAZARDOUS WASTE MANIFEST

U.S. EPA Form 8700-22

1. This form has been designed for use on a 12 pitch (elite) typewriter; a firm point pen, pressed down hard, may also be used.
2. Federal regulations require generators, transporters of hazardous waste, and owners or operators of hazardous waste treatment, storage, and disposal facilities to use EPA Form, 8700-22 (Figure F-1) and, if necessary, the continuation sheet EPA Form, 8700-22A, (Figure F-2) for both inter and intrastate transportation.
3. Federal regulations also require generators, transporters of hazardous waste, and owners or operators of hazardous waste treatment, storage and disposal facilities to complete the following information:

GENERATORS

- Item 1. Generators, U.S. EPA ID Number - Manifest Document Number.
Enter the generator's U.S. EPA twelve digit identification number and the unique five digit number assigned to this Manifest (e.g., 00001) by the generator.
- Item 2. Page 1 of _____

Enter the total number of pages used to complete this Manifest, i.e., the first page (EPA Form 8700-22) plus the number of Continuation Sheets (EPA Form 8700-22A), if any.
- Item 3. Generator's name and mailing address. Enter the name and mailing address of the generator. The address should be the location that will manage the returned Manifest forms.
- Item 4. Generator's Phone Number. Enter a telephone number where an authorized agent of the generator may be reached in the event of an emergency.
- Item 5. Transporter 1 Company Name. Enter the company name of the first transporter who will transport the waste.
- Item 6. U.S. EPA ID Number. Enter the U.S. EPA twelve digit identification number of the first transporter identified in Item 5.

3. The generator shall provide a copy of the "Risk Assessment" to the Environmental Department for all soil collected which will be treated at the Bio Remediation Cell.
4. The HW Coordinator will purchase a "CLOR-N-SOIL" test kit and perform the test in the presence of a Qualified Environmental Compliance Officer. Soils testing "negative" may be accepted for remediation. Soils testing "positive" shall be immediately marked and labeled as a hazardous waste.
5. The HW Coordinator shall ensure that the absorbent or soil be free of all debris, i.e., rocks, trash, etc. Containers found to have any of the above material(s) will be rejected. It will be the generator's responsibility to keep possession of the rejected containers.
6. All personnel who receive, handle and transport PCS, must have attended an initial 40 Hour HW Management Course. Additionally, they must be current with the required 8 hour annual updates per 40 CFR 265.16 and 49 CFR 172.700.
7. The HW Coordinator shall deposit the PCS as directed by an Environmental Compliance Officer.
8. The HW Coordinator shall retain a copy of the Certification of Deposit (CD) no less than five (5) years. At that time, the HW Coordinator shall forward the CDs to the Environmental Department.

ENCLOSURE (1)

SECTION 10: EXCEPTIONS

1. Spent fuel and bulk recyclables shall be disposed of via the Station Supply Fuels Division. For present and future pickup of fuel, oil, and lubricants, the following procedures have been established:

a. Collection of contaminated jet fuel as well as other "used oil" (i.e., hydraulic fluid and motor oil) are under the cognizance of the Station Supply contracted refuelers. For used oil on the flight line, call Maytag at extension 2234. All other sites, call DRMO at extension 2748. All used oil being collected for disposal may be collected in the same container and will be marked "used oil". A field test must be conducted (using the Dexsil Clor-D-Tect 1000/4000 Chlorine Halogen Screening Kit) to determine that halogens are below 1000 ppm at the time of pick-up in the presence of the driver. Fuels, motor oils, hydraulic fluid, etc., that fail the field test, must be marked and handled as HW.

b. The following conditions will apply to the collection of all petroleum, oils, and lubricants (POL) which are bulk recyclables:

(1) The DRMO receipt personnel will refuse delivery of any POL material if, in the judgment of the operator and the Environmental Department, the material does not meet the criteria of that listed in Section 2, paragraph 11 and Section 4, paragraph 2, in this Order.

(2) If the POL fails the field test (halogens over 1000 ppm), the POL is considered a waste and will be managed as HW per this Order.

(3) Any containers that are unidentified or rejected for recycling will be sampled and tested.

(4) Waste containers that are currently being recycled, but become contaminated in a manner which do not allow them to be recycled, will be disposed of as HW.

c. This Order does not apply to the handling and cleanup of polychlorinated biphenyl (PCB) or any item related with PCB. Questions on this matter should be directed to the Environmental Department, at extensions 3201/5580.

d. This Order does not apply to the handling and cleanup of fuels, oils and other HW when spilled. When spills occur, reference (k) must be consulted. Questions on this matter should be directed to the Environmental Department at extension(s) 3201/5580. For fuel spills on the flight line, contact Station Crash/Fire Rescue, at extension 2685.

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e. This Order does not apply to the handling and cleanup of asbestos or any asbestos containing materials.

f. This Order does not apply to the handling, cleanup and disposal of radioactive material or waste. Questions on this matter should be directed to the Environmental Department at extension 2809.

g. This Order does not apply to the handling of scrap metal.

ENCLOSURE (1)

SECTION 11: UNIVERSAL WASTE

1. Universal Wastes. Universal Wastes are solid wastes as defined by 40 CFR 261.2 and 40 CFR 273.6. They include batteries, pesticides, mercury thermostats, and fluorescent light bulbs. Most universal wastes at MCAS Yuma will either be batteries (excluding lead acid) or fluorescent light bulbs. This section of the Order addresses the management of these Universal Wastes. For more in depth information, please refer to 40 CFR, Part 273.

2. Universal Waste Batteries. These are batteries that would otherwise be hazardous prior to the promulgation of Universal Waste Regulations. (Lead acid batteries will continue to be managed under the recycling program). All generators shall manage these wastes in the following manner:

a. Accumulation. Accumulate universal waste batteries in accordance with the procedures for satellite accumulation indicated in 40 CFR 262.34 and this Order. Accumulate Universal wastes for no longer than 30 days.

b. Packaging. Package universal waste batteries in containers that are approved for the material (i.e., UN approved performance oriented packaging). Keep all battery types separated in different containers.

c. Marking and Labeling. Mark universal waste battery containers with the words "Universal Waste Batteries", the Generation Start Date, Unit Name, and the type of batteries that are inside (i.e., Nicad). The container must also be marked in accordance with Department of Transportation Regulations (i.e., Proper Shipping Name, etc.), and labeled if necessary.

d. Turn-in Procedures. When ready to turn-in universal wastes, call Environmental at extension 2605 to set up an appointment. Wastes are usually accepted at 1300. You will be required to have a current Material Safety Data Sheet, and a profile sheet for the waste. Bring the waste when directed to Building 228. A DD Form 1348 turn-in document shall be prepared at the Environmental Department. Ensure that you maintain a copy for your records.

e. Storage. After the waste has been accepted, the waste will be transported to Building 484, where it will be stored. The evolution is not over until the waste has been placed in Building 484. DO NOT leave any waste at Building 228.

ENCLOSURE (1)

3. Universal Waste Fluorescent Light Bulbs

a. Accumulation. Accumulate spent fluorescent light bulbs in accordance with the procedures set forth in 40 CFR 262.34 and this Order, with the exception that accumulation will be in boxes, not drums. Accumulation time for spent fluorescent light bulbs will not be more than 30 days. All generators shall manage this waste in the following manner:

b. Packaging. Package these wastes in the empty boxes that the lights came in when new.

c. Marking and Labeling. Mark the boxes with the words "Waste Mercury Lamps", the generation start date, and the name of your unit. Labeling is not required.

d. Turn-in Procedures. When ready to turn-in spent fluorescent light bulbs, call Environmental at extension 2605 to set up an appointment. Wastes are usually accepted at 1300. Bring the waste when directed to Building 228. A DD Form 1348 turn-in document will be prepared at the Environmental Department. Ensure that you maintain a copy for your records.

e. Storage. After the waste has been accepted, the waste will be transported to Building 485, where it will be stored. The evolution is not over until the waste has been placed in Building 485. DO NOT leave any waste at building 228.

ENCLOSURE (1)

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SECTION 12: TABLE OF FIGURES

- FIGURE 1: INSPECTION REPORT
- FIGURE 2: DAILY INSPECTION SCHEDULE FOR HAZARDOUS WASTE ACCUMULATION AREAS
- FIGURE 3: WEEKLY INSPECTION SCHEDULE FOR HAZARDOUS WASTE ACCUMULATION AREAS AND UNDERGROUND STORAGE TANKS
- FIGURE 4: LIST OF HAZARDOUS WASTE SPILL, CLEANUP, AND DISPOSAL MATERIALS
- FIGURE 5: REQUIREMENTS FOR APPROVAL OF A SATELLITE ACCUMULATION AREA
- FIGURE 6: REQUIREMENTS FOR GENERATOR'S ACCUMULATION AREA
- FIGURE 7: REQUEST FOR SITE APPROVAL FOR GENERATOR'S ACCUMULATION AREA
- FIGURE 8: 40 HOUR COURSE AGENDA
- FIGURE 9: WASTE STREAM AND BUILDING NUMBER LIST
- FIGURE 10: REQUEST FOR FIRE EXTINGUISHER(S)
- FIGURE 11: MARINE CORPS AIR STATION UNIT RUC NUMBERS
- FIGURE 12: PREPARATION OF AN EPA UNIFORM HAZARDOUS WASTE MANIFEST (U.S. EPA FORM 8700-22)
- FIGURE 13: NOTICE OF VIOLATION OF HAZARDOUS WASTE REGULATIONS
- FIGURE 14: COMPATIBILITY CHART
- FIGURE 15: REACTIVITY GROUP NUMBERS (RGNS) AND LABELS

ENCLOSURE (1)

ENVIRONMENTAL DEPARTMENT
HAZARDOUS WASTE INSPECTION REPORT

UNIT: _____ COMMANDING OFFICER: _____
DATE: _____ UNIT REPRESENTATIVE: _____ \ _____

NREA INSPECTOR: _____

HAZARDOUS WASTE DETERMINATION METHOD

**REGULATORY
AUTHORITY**

<u>40CFR, PART</u>	<u>REQUIREMENT/VIOLATION</u>	<u>SAT</u>	<u>UNSAT</u>	<u>REPEAT</u>
262.11	:HAS THE GENERATOR EXAMINED EACH SOLID WASTE TO DETERMINE IF ANY ARE HAZARDOUS WASTE ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
261.4	:HAS THE GENERATOR DETERMINED IF WASTE			
262.11.a	IS EXCLUDED FROM REGULATIONS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
261 SUBPART D:	DETERMINED IF WASTE IS LISTED AS A			
262.11.b	HAZARDOUS WASTE ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
261 SUBPART C:	DETERMINED IF WASTE IS IDENTIFIED BY EITHER OF THE FOLLOWING:			
	(A) TEST THE WASTE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(B) APPLIED KNOWLEDGE OF THE HAZARD CHARACTERISTIC OF THE WASTE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
262.40.c	:HAS THE GENERATOR DOCUMENTED THE WASTE DETERMINATION IN WRITING AND RETAINED RECORDS FOR THREE YEARS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PRE-TRANSPORT REQUIREMENTS

		<u>SAT</u>	<u>UNSAT</u>	<u>REPEAT</u>
262.30	:IS THE WASTE PACKAGED IN ACCORDANCE WITH DOT REGULATIONS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
172.101	:ARE WASTE PACKAGES LABELED IN			
262.31	ACCORDANCE WITH DOT REGULATIONS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
172.300	:ARE CONTAINERS MARKED IN ACCORDANCE			
262.32a	WITH DOT REGULATIONS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(A) PROPER SHIPPING NAME	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(B) HAZARD CLASS IS REQUIRED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(C) PROPER DOT IDENTIFICATION NUMBER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(D) ARE CONTAINERS MARKED WITH THE FOLLOWING WORDS BEFORE OFFERED FOR TRANSPORT ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	"HAZARDOUS WASTE-FEDERAL LAW PROHIBITS IMPROPER DISPOSAL. IF FOUND CONTACT NEAREST POLICE, PUBLIC SAFETY AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY".	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>PRE-TRANSPORT REQUIREMENTS</u>		<u>SAT</u>	<u>UNSAT</u>	<u>REPEAT</u>
<u>(E) GENERATORS NAME AND ADDRESS</u>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>(F) MANIFEST DOCUMENT NUMBER</u>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DESCRIPTION, EPA HAZARDOUS WASTE NO NO. CONCENTRATION, PHYSICAL STATE, QUANTITY AND HANDLING METHOD OF EACH HW HANDLED ON SITE IN ELEMENTARY NEUTRALIZATION OR <u>WASTEWATER TREATMENT UNITS ?</u>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>(G) NAME AND PHONE NUMBER OF FACILITY CONTACT RESPONSIBLE FOR REPORT</u>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>TRAINING</u>		<u>SAT</u>	<u>UNSAT</u>	<u>REPEAT</u>
265.16.b	:HAVE PERSONNEL, ASSIGNED AFTER THE EFFECTIVE DATE OF THE REGULATION, COMPLETED TRAINING BEFORE WORKING IN <u>UNSUPERVISED POSITIONS ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.16.c	:HAVE PERSONNEL TAKEN PART IN AN ANNUAL <u>REVIEW OF INITIAL TRAINING PROGRAM ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.16.d.1	:HAVE DOCUMENTS BEEN MAINTAINED AT THE UNIT WITH THE NAME OF THE PERSON FILLING THE POSITION INVOLVING <u>HAZARDOUS WASTE MANAGEMENT ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.16.d.2	:HAVE DOCUMENTS WITH WRITTEN JOB DESCRIPTION FOR EACH JOB TITLE BEEN <u>MAINTAINED ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
262.16.d.2	:HAVE THE JOB DESCRIPTIONS INCLUDED THE PRE-REQUISITE SKILL, EDUCATION, OR <u>OTHER QUALIFICATIONS ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.16.d.2	:HAVE JOB DESCRIPTIONS LISTED THE <u>DUTIES OF THE JOB ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.16.d.3	:HAS A WRITTEN DESCRIPTION OF THE TYPE AND AMOUNT OF INTRODUCTORY AND CON- TINUING TRAINING THAT WILL BE GIVEN TO EACH PERSON FILLING POSITION INVOLVING HW MANAGEMENT BEEN MAIN- <u>TAINED AT THE FACILITY ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.16.e	:HAVE TRAINING RECORDS BEEN KEPT FOR CURRENT PERSONNEL UNTIL CLOSURE OF <u>THE UNIT ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.16.e MCO P5090	:HAVE TRAINING RECORDS BEEN KEPT ON FORMER PERSONNEL FOR THREE YEARS FROM THE DATE THOSE PERSONS LAST WORKED FOR THAT UNIT ? 5 YRS MCO P5090	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.74	:ARE ALL RECORDS, INCLUDING PLANS, AVAILABLE AT ALL REASONABLE TIMES FOR <u>INSPECTION BY REGULATORY AGENCIES ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PREPAREDNESS AND PREVENTION		SAT	UNSAT	REPEAT
265.31	:HAS THE FACILITY BEEN MAINTAINED AND OPERATED TO MINIMIZE THE POSSIBILITY OF A FIRE, EXPLOSION, OR RELEASE OF HW TO AIR, SOIL, OR SURFACE WATER ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.32.a-d	:IS THE UNIT EQUIPPED WITH THE FOLLOWING ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(A) PORTABLE FIRE EXTINGUISHERS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(B) ADEQUATE WATER VOLUME AND PRESSURE FOR HOSES, SPRINKLER, OR SPRAY SYSTEMS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.33	(C) HAS ALL THE REQUIRED EMERGENCY EQUIPMENT BEEN TESTED AND MAINTAINED TO ENSURE PROPER OPERATION ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.34.a	(D) DO PERSONNEL HANDLING HW HAVE IMMEDIATE ACCESS TO AN ALARM COMMUNICATION DEVICE, EITHER BY VISUAL OR OTHER MEANS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.34.b	(E) HAS ADEQUATE ACCESS TO A TELEPHONE OR TWO WAY RADIO ? (INTERNAL COMM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONTINGENCY PLAN		SAT	UNSAT	REPEAT
265.35	(F) HAS ADEQUATE AISLE SPACE BEEN MAINTAINED TO ALLOW UNOBSTRUCTED MOVEMENT OF EMERGENCY PERSONNEL AND EQUIPMENT ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(G) HAS THE UNIT SUBMITTED A CONTINGENCY PLAN TO ALL EMERGENCY ASSISTANCE ORGANIZATIONS MENTIONED BELOW ? IF SO, PROVIDE A COPY OF LETTER TO:			
	(1) ENVIRONMENTAL OFFICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) FIRE DEPARTMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265 SUBPART B:	(A) IS THE UNIT EQUIPPED WITH THE FOLLOWING?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	TELEPHONE OR TWO WAY RADIO TO CALL EMERGENCY RESPONSE PERSONNEL, WHERE ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(B) PORTABLE FIRE EXTINGUISHERS, FIRE CONTROL EQUIPMENT, SPILL CONTROL EQUIPMENT AND DECONTAMINATION EQUIPMENT.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(C) HAS EQUIPMENT BEEN INSPECTED ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.52.d	:HAS A PRIMARY EMERGENCY COORDINATOR BEEN DESIGNATED IN WRITING ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONTINGENCY PLAN		SAT	UNSAT	REPEAT
265.52.d	:HAS THE ALTERNATIVE EMERGENCY COORDINATOR BEEN LISTED IN THE ORDER IN WHICH THEY WILL ASSUME RESPONSIBILITY ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.52.e	:DOES PLAN INCLUDE A LIST OF ALL REQUIRED EMERGENCY EQUIPMENT AT THE UNIT ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.52.e	:DOES THE PLAN INCLUDE THE LOCATION AND PHYSICAL DESCRIPTION OF EACH ITEM OF EMERGENCY EQUIPMENT, AND ITS CAPABILITIES ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.52.f	:DOES THE PLAN INCLUDE AN EVALUATION PLAN ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.52.f	:DOES THE PLAN DESCRIBE SIGNALS TO BE USED TO BEGIN EVACUATION, ROUTES, AND ALTERNATE ROUTES ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
252.53.a	:IS THE CONTINGENCY PLAN MAINTAINED AT THE UNIT ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.54.a.3	:HAS THE CONTINGENCY PLAN BEEN AMENDED WHENEVER ANY OF THE FOLLOWING OCCURS ? <u>(A) APPLICABLE REGULATIONS ARE REVISED?</u> <u>(B) THE UNIT CHANGES IN ANY WAY THAT INCREASES THE POTENTIAL FOR FIRES, EXPLOSIONS, OR RELEASES, OR THE NECESSARY RESPONSE TO EMERGENCIES ?</u> <u>(C) THE LIST OF EMERGENCY COORDINATORS CHANGES ?</u> <u>(D) THE LIST OF EMERGENCY EQUIPMENT CHANGES ?</u> <u>(E) THE PLAN FAILS IN A EMERGENCY ?</u> <u>(F) IS THERE, AT ALL TIMES, AN EMERGENCY COORDINATOR ON THE PREMISES OR ON CALL ABLE TO REACH THE FACILITY IN A SHORT PERIOD OF TIME ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.56.b	:FOR ANY RELEASE, FIRE OR EXPLOSION, DOES THE PLAN CALL FOR AND HAS THE EMERGENCY COORDINATOR TO: <u>(A) IMMEDIATELY IDENTIFY THE EXACT CHARACTER, EXACT SOURCE, AMOUNT AND REAL EXTENT OF ANY RELEASED MATERIALS ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.56.c	<u>(B) ASSESS POSSIBLE HAZARDS TO HUMAN HEALTH OR THE ENVIRONMENT, CONSIDERING DIRECT AND INDIRECT EFFECTS (e.g., TOXIC IRRITATING AND ASPHYXIATING GAS SURFACE WATER RUN OFF ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>CONTINGENCY PLAN</u>		<u>SAT</u>	<u>UNSAT</u>	<u>REPEAT</u>
265.56.c.2	:FOR ANY IMMINENT OR ACTUAL EMERGENCY SITUATION, DOES THE PLAN CALL FOR THE EMERGENCY COORDINATOR TO ACTIVATE INTERNAL ALARMS OR COMMUNICATION SYSTEM TO NOTIFY EMERGENCY PERSONNEL, FIRE DEPARTMENT, ENVIRONMENTAL DIVISION ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.56.c.2	:HAS THE UNIT EVER HAD A RELEASE, FIRE OR EXPLOSION (SPECIFY DATES)? :HAS THE UNIT FOLLOWED THE PROCEDURES SPECIFIED IN THE PLAN FOR EACH RELEASE, FIRE OR EXPLOSION ? :FOR ANY RELEASE, FIRE OR EXPLOSION, ACTUAL OR IMMINENT OR ANY OTHER INCIDENT, HAS THE CONTINGENCY PLAN BEEN IMPLEMENTED ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.65.j	:DOES THE UNIT NOTE IN THE UNITS RECORD, THE TIME, DATE, AND DETAILS OF THE INCIDENT ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.65.j	:DOES THE UNIT SUBMIT A WRITTEN REPORT 15 DAYS AFTER THE INCIDENT TO ENVIRONMENTAL DEPARTMENT ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.56.j.1-7	:DOES THE REPORT INCLUDE THE FOLLOWING ? <u>(A) THE NAME, ADDRESS, AND PHONE NUMBER OF THE COMMANDING OFFICER ?</u> <u>(B) THE UNITS ADDRESS AND PHONE NUMBER?</u> <u>(C) THE DATE, TIME, AND TYPE OF INCIDENT ?</u> <u>(D) THE NAME AND QUANTITY OF MATERIALS INVOLVED ?</u> <u>(E) THE EXTENT OF INJURIES, IF ANY ?</u> <u>(F) AN ASSESSMENT OF ACTUAL OR POTENTIAL HAZARD TO HUMAN HEALTH OR THE ENVIRONMENT WHERE APPLICABLE ?</u> <u>(G) THE ESTIMATED QUANTITY AND DISPOSITION OF RECOVERED MATERIAL RESULTED FROM THE INCIDENT ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>STORAGE AREA EQUIPMENT CONDITION</u>		<u>SAT</u>	<u>UNSAT</u>	<u>REPEAT</u>
	<u>(A) FIRE EXTINGUISHERS - DATE LAST TESTED ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<u>(B) SAFETY SHOWERS/EYE WASH - DO THEY WORK ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<u>(C) ALARM SYSTEMS - DO THEY WORK ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<u>(D) COMMUNICATION EQUIPMENT - WORKING?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<u>(E) PERSONAL SAFETY EQUIPMENT - IS IT APPROPRIATE FOR HW MATERIALS BEING HANDLED ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONTAINER CONDITION		SAT	UNSAT	REPEAT
<u>(A)</u>	<u>ARE CONTAINERS BEING STACKED ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>(B)</u>	<u>ARE CONTAINERS EXPANDED, DENTED, OR CREASED ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>(C)</u>	<u>ARE CONTAINERS LEAKING ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>(D)</u>	<u>DO CONTAINERS MATCH THE WASTE ?</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SATELLITE ACCUMULATION		SAT	UNSAT	REPEAT
262.34.c	:ARE SATELLITE AREAS AT OR NEAR THE POINT OF GENERATION ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
262.34.c	:ARE SATELLITE AREAS UNDER CONTROL OF THE PERSON GENERATING THE WASTE ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
262.34.c.1.i	:ARE CONTAINERS MAINTAINED IN ACCORDANCE WITH 265 SUBPART I FOR CONTAINERS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
262.34.c.1.i	:ARE CONTAINERS MARKED WITH THE WORDS "HAZARDOUS WASTE" OR OTHER WORDS IDENTIFYING THEIR CONTENTS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
262.34.c.1.	:ARE QUANTITIES LIMITED TO NO MORE THAN 55 GALLONS OR 1 QUART ACUTE HW ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
262.34.c.2	:ARE EXCESS AMOUNTS DATED AND MOVED WITHIN 3 DAYS FROM THE DATE EXCESS BEGAN ACCUMULATING ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.14.c	:ARE THE SIGNS WRITTEN IN BOTH ENGLISH AND SPANISH, AND IS IT LEGIBLE FROM A MINIMUM DISTANCE OF AT LEAST 25 FEET ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.17.a	:ARE "NO SMOKING" SIGNS POSTED IN HAZARDOUS WASTE AREAS WHERE IGNITABLE/ REACTIVE WASTES ARE HANDLED OR STORED ? <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
265.17.b	:IS THE FACILITY PLACING INCOMPATIBLE WASTES TOGETHER ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

RECORDS		SAT	UNSAT	REPEAT
STAO 6280.3D	:DOES THE UNIT HAVE A COPY OF HWMP (STAO 6280.3D) ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MCO 5090.2	:DOES THE UNIT HAVE A COPY OF MCO 5090.2 ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STAO 6280.3D-7c	:HAS HW MANAGER (GROUP) BEEN DESIGNATED IN WRITING ? NAME: _____ DATE OF LETTER: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STAO 6280.3D-7d	:HAVE HW MANAGER'S ALTERNATES BEEN DESIGNATED IN WRITING ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>RECORDS</u>		<u>SAT</u>	<u>UNSAT</u>	<u>REPEAT</u>
STAO 6280.3D-7e	:HAVE HW COORDINATORS AND THEIR ALTER- NATES BEEN DESIGNATED IN WRITING ? <u>NAME</u> <u>DATE OF LTR</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STAO 6280.3D-8	:HAVE MONTHLY HW INSPECTIONS BEEN CONDUCTED BY UNIT HW COORDINATOR ? DATE: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STAO 6280.3D.8c	:HAS SQUADRON HW COORDINATOR MAINTAINED DAILY INSPECTION LOG ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STAO 6280.3D-8c	:HAS SQUADRON HW MANAGER MAINTAINED WEEKLY INSPECTIONS, HIGH WINDS, POST STORM INSPECTIONS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STAO 6280.3D-8c	:ARE COMPLETE TRAINING RECORDS MAINTAINED ON ALL HW WORKERS AT A READILY ACCESSIBLE AREA ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STAO 6280.3D-8c	:ARE TURN-IN DOCUMENTS MAINTAINED FOR A PERIOD OF 3 YEARS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT (EPCRA)</u>		<u>SAT</u>	<u>UNSAT</u>	<u>REPEAT</u>
EPCRA 313	:HAZARDOUS MATERIAL INVENTORY PERFORMED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPCRA 313	:DOES THE HAZ/MAT INVENTORY INCLUDE THE FOLLOWING FOR EACH HAZARDOUS MATERIAL PRODUCT NAME ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	NATIONAL STOCK NUMBER ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	MANUFACTURER'S NAME ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	HAZARD CATEGORY ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	QUANTITY IN POUNDS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPCRA 313	:DOES THE UNIT MAINTAIN A CAREFUL RECORD OF HAZARDOUS MATERIALS PROCURED YEAR TO DATE ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPCRA 313	:DOES THE RECORD INCLUDE THE FOLLOWING FOR EACH HAZARDOUS MATERIAL ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	PRODUCT NAME ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	NATIONAL STOCK NUMBER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	MANUFACTURER'S NAME	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	HAZARD CATEGORY ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	QUANTITY IN POUNDS ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PAINT OPERATIONS		SAT	UNSAT	REPEAT
AAC R-18-2-727	:ARE PAINT OPERATIONS BEING CONDUCTED? DESCRIBE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AAC R-18-2-727	:ARE PAINT CONTAINERS MAINTAINED IN A MANNER NOT TO LEAK, VENT, OR EVAPOR- ATE INTO THE AMBIENT AIR ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AAC R-18-2-727	:WHERE PRACTICABLE, ARE LOW EMITTING VOC POINTS BEING USED ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
172.101 262.31 262.32A	:IF OIL BASED PAINT IS BEING USED, IS THE WASTE FROM CLEANUP OPERATIONS BEING PROPERLY DISPOSED OF ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

UNDERGROUND STORAGE TANKS		SAT	UNSAT	REPEAT
280.12	:DOES UNIT HAVE A HAZARDOUS SUBSTANCE UST ? YES <input type="checkbox"/> NO <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
262.34	:WHAT IS BEING STORED IN UST ? :IS UST BEING INSPECTED AT LEAST WEEKLY ? YES <input type="checkbox"/> NO <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STAO 6280.3D	:IF UST IS NOT IN OPERATION, IS IT SECURED IN A MANNER THAT PREVENTS UNKNOWN DEPOSITS ? YES <input type="checkbox"/> NO <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STAO 6280.3D	:ARE RECORDS AVAILABLE ? YES <input type="checkbox"/> NO <input type="checkbox"/> :HAS CONTENTS OF UST BEEN STORED MORE THAN 90 DAYS ? YES <input type="checkbox"/> NO <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DAILY INSPECTION SCHEDULE FOR HAZARDOUS WASTE ACCUMULATION AREA

UNIT _____ AREA # _____ MONTH _____ YEAR _____

DAY	TIME	INSPECTED BY	LEAKS, SPILLS OR OVERTURNED CONTAINERS (ENTER CONTAINER CONTENTS) (CLEAN, SUMP) LOCKED ACCUMULATION START DATE	CORRECTIVE ACTION/ SIGNATURE & DATE TIME
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				

FIGURE 2 (PG 1 OF 2)

StaO 6280.3D
03 NOV 1997

DAILY INSPECTION SCHEDULE FOR HAZARDOUS WASTE ACCUMULATION AREA

UNIT _____ AREA # _____ MONTH _____ YEAR _____

DAY	TIME	INSPECTED BY	LEAKS, SPILLS OR OVERTURNED CONTAINERS (ENTER CONTAINER CONTENTS) (CLEAN, SUMP) LOCKED ACCUMULATION START DATE	CORRECTIVE ACTION/ SIGNATURE & DATE TIME
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

WEEKLY INSPECTION SCHEDULE FOR HAZARDOUS WASTE ACCUMULATION AREA
AND UNDERGROUND STORAGE TANKS

INSPECTED BY _____ WEEK ENDING _____

CHECKLIST DATE	DATE/TIME	CONDITIONS FOUND	DEFICIENT YES/NO	CORRECTIVE ACTION
CONDITION OF CONTAINERS				
CONTAINERS CLOSED				
LEAKS				
AISLE SPACE				
LABELS VISIBLE				
LABELS FILLED OUT				
RECORDS UP-TO-DATE				
WARNING SIGNS POSTED				
SAFETY EQUIPMENT AT SITE				
EYE WASH STATION				
FIRE EXTINGUISHER				
SPILL ABSORBENT				
DRUM WRENCH				
SUMP CLEAN				
GATES LOCKED				
ACCUMULATION START DATE				
COMPATIBILITY				
USTs/TANK SECURED (LOCKED)				
FREE PRODUCT DETECTED				

PROBLEMS MUST BE CORRECTED PROMPTLY.

FIGURE 3

StaO 6280.3D
03 NOV 1997

LIST OF HAZARDOUS WASTE SPILL, CLEAN-UP, AND DISPOSAL MATERIALS

1. Trash Bags - (Asbestos, Caution) Large
- *2. Rubber Coated Laboratory Apron
- *3. Face Shields
4. Disposable Gloves (plastic)
- *5. Petroleum Spill Kit
6. Glove, Shield, Boot, Insulated Rubberized Suit
7. Yellow Rain Suits
8. Respirator Face Piece Sub Assembly
9. Respirator Face Assembly
- *10. Rubber Gloves
11. White Paper Disposable Suits
12. Boots
13. Scott Air Pack 4.5
- *14. Safe Step Absorbent
- *15. 85 Gal. Overpack Steel Drums with Liners - NSN 8110-01-101-4056
- *16. 55 Gal. Steel Drums - NSN 8110-00-292-9783
- *17. Shovels
18. Spark Resistant Hand Tools
- *19. First Aid Kit
20. Caution Tape
21. Traffic Markers

*22. General Purpose Funnels

23. Bung Wrench

*24. Brooms

*25. Eye Wash

* **REQUIRED SPILL AND CLEAN-UP MATERIALS**

REQUIREMENTS FOR APPROVAL OF A SATELLITE ACCUMULATION AREA

1. Marking on Container. Containers must be marked with the word, "HAZARDOUS WASTE" or by other words which correctly identifies its contents.
2. Quantity Limitations
 - a. Fifty-five (55) gallons of non-acute hazardous waste.
 - b. One (1) quart of acute hazardous waste per 40 CFR 261.33E or a Hazard Code of "H".
3. When maximum quantity is exceeded
 - a. An accumulation start date will be marked on the container indicating the beginning of the 90 day accumulation time limit.
 - b. The container must be moved within 3 days to a designated 90 day generator's accumulation area.
4. Approval. Requests for satellite accumulation areas must be obtained in writing and submitted through the Environmental Department. (Submit Figure 7)
5. General Rules
 - a. Containers must be compatible (nonreactive) with the waste being accumulated.
 - b. Containers must remain closed except during transfer operations.
 - c. Containers are under the direct control of the operator generating the waste.
 - d. Satellite accumulation areas must be located at or near the point of generation.
 - e. Containers must be in good condition (i.e., no dirt, corrosion, rust, holes, leaks, etc.).

- Item 7. Transporter 2 Company Name. If applicable, enter the company name of the second transporter who will transport the waste. If more than two transporters are used to transport the waste, use a Continuation Sheet(s) (EPA Form 8700-22A) and list the transporters in the order they will be transporting the waste.
- Item 8. U.S. EPA ID Number. If applicable, enter the U.S. EPA twelve digit identification number of the second transporter identified in Item 7.

Note: If more than two transporters are used, enter each additional transporter's company name and U.S. EPA twelve digit identification number in Items 24-27 on the Continuation Sheet (EPA Form 8700-22A). Each Continuation Sheet has space to record two additional transporters. Every transporter used between the generator and the designated facility must be listed.

Bill of Lading information. States may not require additional, new, or different information in this space. For international shipments, generators must enter in this space the point of departure (City and State) for those shipments destined for treatment, storage, or disposal outside the jurisdiction of the United States.

When an "F" listed waste is on the manifest, add this statement to Section 15:

This Waste is FOO___ and Banned from Land Fill Disposal as per 40 CFR 268.

If more than one "F" waste is listed, use additional "F" numbers in your statement. As an example:

"This waste is FOO___, FOO___, and FOO and is Banned from Land Disposal as per 40 CFR 268."

- Item 16. Generator's Certification. The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another mode in addition to the highway mode is used, enter the appropriate additional mode (e.g., air and rail) in the space below.

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Note: All of the above information, except the handwritten signature required in Item 16 may be preprinted.

TRANSPORTERS

Item 17. Transporter 1 - Acknowledgment of Receipt of Materials.
Enter the name of the person accepting the waste on behalf of the first transporter. That person must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt.

Item 18. Transporter 2 - Acknowledgment of Receipt of Materials.
Enter, if applicable, the name of the person accepting the waste on behalf of the second transporter. That person must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt.

Note: International Shipments - Transporter Responsibilities.
Imports. Shipments of hazardous waste regulated by RCRA and transported into the United States from another country must upon entry be accompanied by the U.S. EPA Uniform Hazardous Waste Manifest. Transporters who transport hazardous waste into the United States from another country are responsible for completing the Manifest per 40 CFR 263.10(c)(1).

Exports. Transporters must sign and enter the date the waste left the United States in item 15 of Form 8700-22A.

REPORTABLE QUANTITY VALUE RQ's - 5000/1000/100/10/1		REPORT ANY "RQ" DISCHARGE TO NATIONAL RESPONSE CENTER (800) 424-8802, AND 911 EMERGENCY NUMBER OR LOCAL OPERATOR. EMERGENCY CONTACT: CHEMTREC (800) 424-9300	PLACARDS PROVIDED	EMERGENCY RESPONSE GUIDE NUMBER	a.	b.
a. RQ =	c. RQ =					
b. RQ =	d. RQ =					

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

Form Approved OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No		Manifest Document No	2 Page 1 of	Information in the shaded areas is not required by Federal law.				
		3 Generator's Name and Mailing Address						A. State Manifest Document Number		
4 Generator's Phone ()						B. State Generator's ID				
5 Transporter 1 Company Name				6 US EPA ID Number	C. State Transporter's ID					
7 Transporter 2 Company Name						D. Transporter's Phone				
8 US EPA ID Number				E. State Transporter's ID						
9 Designated Facility Name and Site Address						F. Transporter's Phone				
10 US EPA ID Number				G. State Facility's ID						
11 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						H. Facility's Phone				
G E N E R A T O R a. b. c. d.						12 Containers No	Type	13. Total Quantity	14 Unit Wt/Vol	I. Waste No.
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above				
15 Special Handling Instructions and Additional Information						AGENCY DISPLAY OF ESTIMATED BURDEN "Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503."				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name				Signature		Month Day Year				
T R A N S P O R T E R										
17 Transporter 1 Acknowledgement of Receipt of Materials										
Printed/Typed Name				Signature		Month Day Year				
18 Transporter 2 Acknowledgement of Receipt of Materials										
Printed/Typed Name				Signature		Month Day Year				
F A C I L I T Y										
19 Discrepancy Indication Space										
20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19										
Printed/Typed Name				Signature		Month Day Year				

6280
3VA

From: Environmental Compliance Officer, MCAS Yuma
To:

Subj: NOTICE OF VIOLATION OF HAZARDOUS WASTE REGULATIONS

Ref: (a) Title 40, Code of Federal Regulations, Parts 260-280
(b) Title 49, Code of Federal Regulations, Parts 171-177
(c) Title 29, Code of Federal Regulations, Parts 1910
(d) Arizona Administrative Code Title 18
(e) MCO P5090.2
(f) StaO 6280.3D

1. Per the references, the following violation(s) were noted during a site visit conducted this date _____.

Violation (1): _____

Violation (2): _____

2. This report constitutes official notification of a violation of Federal, State, or Marine Corps regulations. Having knowledge of a violation of environmental regulations and permitting the violation to exist can result in personal and criminal liability under Federal and State laws as well as prosecution under the Uniform Code of Military Justice.

3. A written report of corrective action taken on this Notice of Violation shall be submitted to the Environmental Department, Compliance and Protection Division no later than _____. Questions regarding this Notice of Violation should be directed to the undersigned Compliance Officer, at extension 3201/5580.

4. A copy of this report is being provided to the Commanding Officer, Marine Corps Air Station, Yuma, and the Commanding Officer of your unit.

Compliance Officer

I acknowledge receipt of this report

Ext. _____

APPENDIX A

LIST OF REACTIVITY GROUP NUMBERS (RGNS) FOR CHEMICAL SUBSTANCES

This appendix lists the chemical substances that may be found in hazardous wastestreams. The list is not inclusive but represents the data compiled through a literature survey and examination of hazardous waste management practices.

The list consists of three columns. The first column lists the chemical or trade names in alphabetical order. The trade names are denoted by asterisks (*). The second column lists the synonyms or common names of the chemical substances when available. The third column lists the reactivity group numbers (RGN) assigned to the substances as derived in Appendix 2. A compound may be assigned more than one RGN.

This appendix is used to obtain the RGN of waste constituents when known specifically. The RGN is used to determine the compatibility of the combinations of wastes according to the compatibility method in Section 4.

The chemical substances listed were compiled from several sources. The list of Hazardous Wastes and Hazardous Materials and List of Extremely Hazardous Wastes and Extremely Hazardous Materials in California's Industrial Waste Law of 1972 (Ref. 44) served as the starting reference. The primary sources of information consisted of published reports (Ref. 1, 7, 12, 13, 14, 32, and 52) identifying the hazardous chemical substances in industrial wastestreams. Additional chemical entries were abstracted from the California Waste Haulers Record files (Ref. 10), California Extremely Hazardous Waste Disposal Permit files (Ref. 8), and the TRW Systems' report on recommended methods of reduction, neutralization, recovery, and disposal of hazardous wastes (Ref. 77).

RGN	Names	Synonyms
32	Abate*	
16	Acenaphthene	
6	Acetamide	
5	Acetaldehyde	
3	Acetic acid	
107	Acetic anhydride	
19	Acetone	Dimethyl ketone
4, 26	Acetone cyanohydrin	Hydroxylsobutyronitrile
19	Acetonitrile	Methyl cyanide
19	Acetophenone	
13	Acetoxybutane	Butyl acetate
13	Acetoxypentane	Amyl acetate
19	Acetyl acetone	
102	Acetyl azide	
30	Acetyl benzoyl peroxide	
17, 107	Acetyl bromide	
17, 107	Acetyl chloride	
28	Acetylene	
27, 102	Acetyl nitrate	
30	Acetyl peroxide	
5, 103	Acrolein	
3, 103	Acrylic acid	
26, 103	Acrylonitrile	
3	Adipic acid	
26	Adiponitrile	
24	Agallol	
24	Agaloaretan	
24	Aldicarb	
9, 20	Aldrin	
107	Alkyl aluminum chloride	
101	Alkyl resins	
28	Allene	
4	Allyl alcohol	
17	Allyl bromide	
17	Allyl chloride	
13, 17	Allyl chloroacetate	
13, 17	Allyl chloroformate	
107	Allyl trichlorosilane	
22, 23	Aluminum	
107	Aluminum aminoborohydride	
107	Aluminum borohydride	
103, 107	Aluminum bromide	
105	Aluminum carbide	
107	Aluminum chloride	
105, 107	Aluminum diethyl monochloride	
15, 107	Aluminum fluoride	
105	Aluminum hydride	
107	Aluminum hypophosphide	
107	Aluminum phosphide	
107	Aluminum tetraazidoborate	
8	Aminobenzene	
7	Aminobutane	
7	Aminochlorotoluene	
7, 17	Aminodiphenyl	
7	Aminoethane	
4, 7	Aminoethanol	
7	Aminoethanolamine	
7	Aminohexane	
7	Aminomethane	
7	Aminopentane	
7, 31	Aminophenol	
102	Acetyl azide	
17, 107	Acetyl benzoyl peroxide	
17, 107	Acetyl bromide	
28	Acetylene	
27, 102	Acetyl nitrate	
30	Acetyl peroxide	
5, 103	Acrolein	
3, 103	Acrylic acid	
26, 103	Acrylonitrile	
3	Adipic acid	
26	Adiponitrile	
24	Agallol	
24	Agaloaretan	
24	Aldicarb	
9, 20	Aldrin	
107	Alkyl aluminum chloride	
101	Alkyl resins	
28	Allene	
4	Allyl alcohol	
17	Allyl bromide	
17	Allyl chloride	
13, 17	Allyl chloroacetate	
13, 17	Allyl chloroformate	
107	Allyl trichlorosilane	
22, 23	Aluminum	
107	Aluminum aminoborohydride	
107	Aluminum borohydride	
103, 107	Aluminum bromide	
105	Aluminum carbide	
107	Aluminum chloride	
105, 107	Aluminum diethyl monochloride	
15, 107	Aluminum fluoride	
105	Aluminum hydride	
107	Aluminum hypophosphide	
107	Aluminum phosphide	
107	Aluminum tetraazidoborate	
8	Aminobenzene	
7	Aminobutane	
7	Aminochlorotoluene	
7, 17	Aminodiphenyl	
7	Aminoethane	
4, 7	Aminoethanol	
7	Aminoethanolamine	
7	Aminohexane	
7	Aminomethane	
7	Aminopentane	
7, 31	Aminophenol	
102	Acetyl azide	
17, 107	Acetyl benzoyl peroxide	
17, 107	Acetyl bromide	
28	Acetylene	
27, 102	Acetyl nitrate	
30	Acetyl peroxide	
5, 103	Acrolein	
3, 103	Acrylic acid	
26, 103	Acrylonitrile	
3	Adipic acid	
26	Adiponitrile	
24	Agallol	
24	Agaloaretan	
24	Aldicarb	
9, 20	Aldrin	
107	Alkyl aluminum chloride	
101	Alkyl resins	
28	Allene	
4	Allyl alcohol	
17	Allyl bromide	
17	Allyl chloride	
13, 17	Allyl chloroacetate	
13, 17	Allyl chloroformate	
107	Allyl trichlorosilane	
22, 23	Aluminum	
107	Aluminum aminoborohydride	
107	Aluminum borohydride	
103, 107	Aluminum bromide	
105	Aluminum carbide	
107	Aluminum chloride	
105, 107	Aluminum diethyl monochloride	
15, 107	Aluminum fluoride	
105	Aluminum hydride	
107	Aluminum hypophosphide	
107	Aluminum phosphide	
107	Aluminum tetraazidoborate	
8	Aminobenzene	
7	Aminobutane	
7	Aminochlorotoluene	
7, 17	Aminodiphenyl	
7	Aminoethane	
4, 7	Aminoethanol	
7	Aminoethanolamine	
7	Aminohexane	
7	Aminomethane	
7	Aminopentane	
7, 31	Aminophenol	
102	Acetyl azide	
17, 107	Acetyl benzoyl peroxide	
17, 107	Acetyl bromide	
28	Acetylene	
27, 102	Acetyl nitrate	
30	Acetyl peroxide	
5, 103	Acrolein	
3, 103	Acrylic acid	
26, 103	Acrylonitrile	
3	Adipic acid	
26	Adiponitrile	
24	Agallol	
24	Agaloaretan	
24	Aldicarb	
9, 20	Aldrin	
107	Alkyl aluminum chloride	
101	Alkyl resins	
28	Allene	
4	Allyl alcohol	
17	Allyl bromide	
17	Allyl chloride	
13, 17	Allyl chloroacetate	
13, 17	Allyl chloroformate	
107	Allyl trichlorosilane	
22, 23	Aluminum	
107	Aluminum aminoborohydride	
107	Aluminum borohydride	
103, 107	Aluminum bromide	
105	Aluminum carbide	
107	Aluminum chloride	
105, 107	Aluminum diethyl monochloride	
15, 107	Aluminum fluoride	
105	Aluminum hydride	
107	Aluminum hypophosphide	
107	Aluminum phosphide	
107	Aluminum tetraazidoborate	
8	Aminobenzene	
7	Aminobutane	
7	Aminochlorotoluene	
7, 17	Aminodiphenyl	
7	Aminoethane	
4, 7	Aminoethanol	
7	Aminoethanolamine	
7	Aminohexane	
7	Aminomethane	
7	Aminopentane	
7, 31	Aminophenol	

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RGN	Names	Synonyms	RGN	Names	Synonyms
7	Aminopropane	Isopropyl amine	24	Antimony sulfate	Antimony trisulfate
7, 26	Amino propionitrile		24, 33, 103	Antimony sulfide	Antimony trisulfide
7, 8	Aminothiazole		24, 107	Antimony tribromide	Antimony chloride
7	Aminotoluene	Toluidine	24, 107	Antimony trichloride	Antimony fluoride
10	Ammonia		24, 107	Antimony trifluoride	
24	Ammonium arsenate		24	Antimony triiodide	Antimony oxide
102	Ammonium azide		24	Antimony trioxide	Antimony sulfate
15	Ammonium bifluoride		24, 33	Antimony trisulfate	Antimony sulfide
102, 104	Ammonium chloride		24, 107	Antimony trivinyll	
24, 102	Ammonium dichromate		5, 103	Aqualin	Acrolein
15	Ammonium fluoride		106	Aqueous solutions & mixtures	
24, 102	Ammonium hexanitrocobaltate			Arethan*	Methoxyethylmercuric chloride
10	Ammonium hydroxide		24	Aroclor*	Polychlorinated biphenyl
105	Ammonium hypophosphide		17	Arsenic	Arsenic tribromide
24	Ammonium molybdate		24	Arsenic bromide	Arsenic trichloride
102	Ammonium nitrate		24, 107	Arsenic chloride	Arsenic sulfide
104	Ammonium nitridoosmate		24, 107	Arsenic disulfide	Arsenic triiodide
102, 104	Ammonium nitrite		24, 24, 107	Arsenic iodide	Arsenic pentoxide
104	Ammonium perchlorate		24	Arsenic oxide	
102, 104	Ammonium periodate		24	Arsenic pentaselenide	Arsenic oxide
104	Ammonium permanganate		24, 33	Arsenic pentasulfide	Arsenic disulfide
24, 102, 104	Ammonium persulfate		24	Arsenic pentoxide	Arsenic bromide
102	Ammonium picrate		24, 33, 103	Arsenic sulfide	Arsenic chloride
33, 103	Ammonium sulfide		24, 107	Arsenic tribromide	
24, 104	Ammonium tetrachromate		24, 107	Arsenic trichloride	
24, 102, 104	Ammonium tetraperoxochromate		24	Arsenic trifluoride	
24, 104	Ammonium trichromate		24, 107	Arsenic triiodide	
13	Amyl acetate	Acetoxy pentane	24, 107	Arsenic trisulfide	
4	Amyl alcohol	Chloropentane	24, 33, 103	Arsine	
17	Amyl chloride	Aminopentane	24, 24, 103	Askarel	Polychlorinated biphenyl
26	Amyl cyanide	Pentene	101	Asphalt	
7	Amylamine	Pentanethiol	8, 102	Azidocarbonyl guanidine	
28	Amylene	Tetrasul	8	Azido-s-triazole	
20	Amyl mercaptan		32	Azinphos ethyl	
7	Aniline		7, 103	Aziridine	
20	Anilmer* V-101		8, 26	a,a'-Azodisobutyronitrile	
14	Anisole	Antimony trichloride	32	Azodrin*	
107	Anisole chloride	Antimony trifluoride	101	Bakelite*	
16	Anthracene		9	Banol	
23, 24	Antimony		21, 24, 107	Barium azide	
24, 107	Antimony chloride		24, 102	Barium bromate	
24, 107	Antimony fluoride		24, 104	Barium carbide	
24, 25	Antimony nitride		24, 105, 107	Barium chlorate	
24	Antimony oxochloride	Antimony trioxide	24, 104	Barium chloride	
24	Antimony oxide		24	Barium chromate	
24	Antimony pentachloride		24, 104	Barium fluoride	
24	Antimony pentasulfide		15, 24	Barium fluosilicate	
24, 33, 103	Antimony perchlorate				
24, 104	Antimony potassium tartrate				

FIGURE 15 2

RGN	Names	Synonyms	RGN	Names	Synonyms
24, 105	Barium hydride		10, 24	Beryllium hydroxide	
10, 24	Barium hydroxide		24	Beryllium oxide	
24, 105	Barium hypophosphide		33, 105	Beryllium sulfide	
24, 104	Barium iodate		24, 105, 107	Beryllium tetrahydroborate	
24	Barium iodide		Bidrin*		
10, 24, 107	Barium monoxide	Barium oxide	22, 23, 24	Bismuth	
24, 104	Barium nitrate		24	Bismuth chromate	
10, 24, 107	Barium oxide	Barium monoxide	24	Bismuthic acid	
24, 104	Barium perchlorate		24, 25, 102	Bismuth nitride	
24, 104	Barium permanganate		24, 107	Bismuth pentafluoride	
24, 104	Barium peroxide		24	Bismuth pentaoxide	
24, 24	Barium phosphate		24, 33, 105	Bismuth sulfide	
24	Barium stearate		24	Bismuth tribromide	
24, 105, 107	Barium sulfide		24	Bismuth trichloride	
24	Barium sulfite		24	Bismuth triiodide	
9	Bassa*		24	Bismuth trioxide	
32	Bayer 25141	BPMC	24, 33, 105	Bismuth trisulfide	
9	Baygon*	Fensulfothion	32	Blada-fum*	
6	Benzadox	Topcide*	24	Blue vitriol	Sulfotep Copper sulfate
17	Benzal bromide		24, 107	Bornyl	
17	Benzal chloride		24	Borane	
5	Benzaldehyde		24	Bordeaux arsenites	
16	Benz-a-pyrene		1	Boric acid	
16	Benzene		24, 105	Boron arsenotribromide	
8, 102	Benzene diazonium chloride		24, 107	Boron bromodiodide	
107	Benzene phosphorus dichloride		24, 107	Boron dibromodiodide	
7	Benzidine		24, 25	Boron nitride	
3	Benzolic acid		24, 107	Boron phosphide	
26	Benzonitrile		24, 102	Boron triazide	
19	Benzophenone		24, 107	Boron tribromide	
19	Benzoquinone	Quinone	24, 107	Boron trichloride	
8, 102	Benzotriazole		24, 107	Boron trifluoride	
17	Benzotribromide		24, 107	Boron triiodide	
17	Benzotrithloride		24, 107	Boron trifluoride	
17	Benzotrifluoride		24, 33, 105	Boron trisulfide	Bassa*
107	Benzoyl chloride		23	BPMC	
30, 102	Benzoyl peroxide	Trifluoromethylbenzene	23	Brass	
4	Benzyl alcohol	Dibenzoyl peroxide	2	Bromic acid	
7	Benzylamine		104	Bromine	
16	Benzyl benzene	Diphenylmethane	102	Bromine azide	
17	Benzyl bromide	Bromotoluene	11	Bromine cyanide	
17	Benzyl chloride	Chlorotoluene	104, 107	Bromine monofluoride	
17	Benzyl chloroformate	Benzyl chloroformate	104, 107	Bromine pentafluoride	
17	Benzyl chloroformate	Benzyl chloroformate	104, 107	Bromine trifluoride	
105, 107	Benzyl silane		17	Bromoacetylene	
105, 107	Benzyl sodium		6, 19	Bromobenzoyl acetylalide	
24	Beryllium		17	Bromobenzoyl trifluoride	
24	Beryllium copper alloy		105	Bromodiborane	
15, 24	Beryllium fluoride		107	Bromodimethylaluminum	
24, 105, 107	Beryllium hydride		14	Bromodimethoxyaniline	
			17	Bromoform	Tribromomethane

FIGURE 15 3

Synonyms

Butanol

Dimethylarsenic acid

<u>RGN</u>	<u>Names</u>	<u>Synonyms</u>	<u>RGN</u>	<u>Names</u>	<u>Synonyms</u>
17	Bromomethane		6	Butyramide	
17, 31	Bromophenol	Methyl bromide	5	Butyraldehyde	
17	Bromopropene	Allyl bromide	3	Butyric acid	
17	Bromopropyne		26	Butyronitrile	
105	Bromosilane		9	Bux*	
17	Bromotoluene	Benzyl bromide	24	Cacodylic acid	
17	Bromotrifluoromethane		23, 24	Cadmium	
17	Bromotrifluoromethane		24, 105, 107	Cadmium acetylilide	
17	Bromoxynil	3,5-Dibromo-4-hydroxy benzonitrile	24, 10, 107	Cadmium amide	
17, 26, 31	Bronze		24, 24, 102	Cadmium azide	
23	Buna-N*		24	Cadmium bromide	
101	Bunker fuel oil		24, 104	Cadmium chlorate	
101	Butacarb		24	Cadmium chlorite	
9	Butadiene		11, 24	Cadmium cyanide	
28, 103	Butadiene		15, 24	Cadmium fluoride	
28	Butadiyne		24, 102	Cadmium hexamine chlorate	
5	Butanal	Diacetylene	24, 102	Cadmium hexamine perchlorate	
29	Butane	Butyraldehyde	24	Cadmium iodide	
4	Butanediol		24, 102, 104	Cadmium nitrate	
20	Butanethiol	Butyl mercaptan	24, 25, 102	Cadmium nitride	
102	Butanetriol trinitrate		24	Cadmium oxide	
4	Butanol		24	Cadmium phosphate	
19	Butanone	Butyl alcohol	24, 33, 105	Cadmium sulfide	
5	Butenal	Methyl ethyl ketone	24, 24, 102	Cadmium trihydrazine chlorate	
28	Butene	Crotonaldehyde	24, 102	Cadmium trihydrazine perchlorate	
19	Butene-2-one		24, 102	Calcium	
13	Butyl acetate		24	Calcium arsenate	
13, 103	n-Butyl acrylate		24	Calcium arsenite	
7	Butylamine	Aminobutane	104	Calcium bromate	
4	Butyl alcohol	Butanol	105, 107	Calcium carbide	
8	t-Butyl azidoformate		104	Calcium chloride	
16	Butyl benzene	Phenylbutane	104	Calcium chlorite	
13	Butyl benzyl phthalate		15	Calcium fluoride	
4	Butyl cellulose*		105	Calcium hexammoniate	
105	Butyl dichloroborane		105, 107	Calcium hydride	
14	Butyl ether	Dibutyl ether	10	Calcium hydroxide	
13	Butly formate		104	Calcium hypochlorite	
17	Butyl fluoride		105	Calcium hypophosphite	
34	Butyl glycidyl ether		104	Calcium iodate	
30	Butyl hydroperoxide		23	Calcium-manganese-silicon alloy	
102, 104	t-Butyl hypochlorite		104	Calcium nitrate	
105, 107	n-Butyl lithium		10, 107	Calcium oxide	
20	Butyl mercaptan	Butanethiol	104	Calcium oxochloride	
30	Butyl peroxide	t-Butyl perbenzoate	104	Calcium perchromate	
30	Butyl peroxyacetate		104	Calcium permanganate	
30	Butyl peroxybenzoate		104	Calcium peroxide	
30	Butyl peroxyvalate		107	Calcium phosphide	
30	t-Butyl perbenzoate	Butyl peroxyacetate	33, 105	Calcium sulfide	
34	t-Butyl-3-phenyl oxazirane		101	Camphor oil	
107	Butyl trichlorosilane		3	Capric acid	

Hydrated lime
Calcium oxochloride

Lime nitrate, nitrocalcite
Slaked lime
Calcium hypochlorite

RGN	Names	Synonyms	RGN	Names	Synonyms
3	Caproic acid	Hexanoic acid	5, 17	Chloroacetaldehyde	Monochloroacetic acid
3	Caprylic acid	Octyl peroxide	3, 17	Chloroacetic acid	Monochloroacetone
30	Caprylyl peroxide		17, 19	Chloroacetone	Phenyl chloromethyl ketone
31	Carbacrol		17, 19	Chloroacetophenone	
9	Carbaryl		107	Chloroacetyl chloride	
6	Carbetamide	Banol	102	Chloroacetylene	
9	Carbanolate	Furadan*	17, 26	Chloroacrylonitrile	
9	Carbofuran	Phenol	8, 17	Chloroazodin	
31	Carbolic acid		17	Chlorobenzene	
31	Carbolic oil		8, 17	Chlorobenzotriazole	
101	Carbon, activated, spent	Carbon disulfide	17, 30	Chlorobenzoyl peroxide	
20	Carbon bisulfide	Carbon bisulfide	17, 26	Chlorobenzylidene malononitrile	
20	Carbon disulfide	Tetrachloromethane	17, 26	Chlorobutyronitrile	
17	Carbon tetrachloride		24, 104, 107	Chloro chromic anhydride	Chromyl chloride
17	Carbon tetrafluoride		17, 31	Chlorocresol	
17	Carbon tetralodide		105	Chlorodiborane	
7	Castrix	Crimidine	105, 107	Chlorodiisobutyl aluminum	
31	Catechol	Potassium hydroxide	105	Chlorodimethylamine diborane	Dinitrochlorobenzene
10	Caustic potash	Sodium hydroxide	17, 27	Chloro dinitrobenzene	
10	Caustic soda		17, 27	Chloro dinitrotoluene	
12	CDEC		105	Chlorodipropyl borane	
101	Cellulose	Nitro cellulose	17	Chloroethane	Ethyl chloride
27, 102	Cellulose nitrate		4, 7	Chloroethanol	
22	Cerium		17	Chloroethylenimine	Trichloromethane
105	Cerium hydride		17	Chloroform	Methyl chloride
33, 105	Cerium trisulfide		17	Chlorohydrin	
105	Cerous phosphide		17	Chloromethane	Nitrochlorobenzene
21	Cesium		17	Chloromethyl methyl ether	Amyl chloride
107	Cesium amide		3, 17	Chloromethyl phenoxyacetic acid	
102	Cesium azide		17, 27	Chloronitroaniline	
105	Cesium carbide		17, 27	Chloronitrobenzene	
15	Cesium fluoride		17	Chloropentane	
105	Cesium hexahydroaluminate		31	Chlorophenol	Chlorpicrin, Trichloronitromethane
105, 107	Cesium hydride		17, 18, 107	Chlorophenyl isocyanate	Isopropyl chloride
107	Cesium phosphide		107	Chloropicrin	Allyl chloride Epichlorohydrin
33, 105	Cesium sulfide		17, 27, 102	Chloropropane	Benzyl chloride
5	Chloral hydrate	Trichloroacetaldehyde	17	Chloropropene	Picryl chloride
17	Chlordane	Polychlorinated biphenyl	17	Chloropropylene oxide	Lewisite
17	Chlorestol		17, 34	Chlorosilane	Trichloronitromethane
32	Chlorfenvinphos		105	Chlorosulfonic acid	Chromic anhydride, Chromium trioxide
2, 104	Chlorine acid		1	Chlorothion*	
104	Chlorine		17, 32	Chlorotoluene	
102	Chlorine azide		17, 17	Chlorotoluene	
104, 107	Chlorine dioxide		7, 17	Chlorotrinitrobenzene	
102, 104	Chlorine fluoride		17, 27, 102	β-Chlorovinylchloroarsine	
104, 107	Chlorine monofluoride		24	Chlorpicrin	
104, 104	Chlorine monoxide		17, 27, 102	Chromic acid	
104, 107	Chlorine pentafluoride		2, 24, 104		
104, 107	Chlorine trifluoride				
102, 104	Chlorine trioxide				

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Names	Synonyms	RGN	Names	Synonyms	RGN	Names	Synonyms	RGN
Chromic anhydride	Chromium trioxide, Chromic acid	2, 24, 104	Chromium trioxide, Chromic acid	Chromium trioxide, Chromic acid	5	Crotonaldehyde	Butenal	5
Chromic chloride	Chromium trichloride	24	Chromium trichloride	Chromium trichloride	4	Crotyl alcohol		4
Chromic fluoride	Chromium trifluoride	15, 24	Chromium trifluoride	Chromium trifluoride	17	Crotyl bromide		17
Chromic oxide		24	Chromium sulfate	Chromium sulfate	17	Crotyl chloride		17
Chromic sulfate		24	Chromium sulfate	Chromium sulfate	16	Cumene	Isopropyl benzene	16
Chromium		23, 24	Chromium sulfate	Chromium sulfate	30	Cumene hydroperoxide	Dimethylbenzyl hydroperoxide	30
Chromium sulfate		24	Chromium sulfate	Chromium sulfate	24	Cupric arsenate	Copper arsenate	24
Chromium sulfide		24	Chromium sulfate	Chromium sulfate	24	Cupric arsenite	Copper arsenite	24
Chromium trichloride		24, 33, 105	Chromic chloride	Chromic chloride	24	Cupric chloride	Copper chloride	24
Chromium trifluoride		24	Chromic fluoride	Chromic fluoride	11, 24	Cupric cyanide	Copper cyanide	11, 24
Chromium trioxide		15, 24	Chromic fluoride	Chromic fluoride	24, 104	Cupric nitrate	Copper nitrate	24, 104
Chromyl chloride		2, 24, 104	Chromic acid,	Chromic acid,	24	Cupric sulfate	Copper sulfate	24
Chrysene		24, 104, 107	Chromo chromic anhydride	Chromo chromic anhydride	7, 24	Cupriethylenediamine	Malonic nitrile	7, 24
CMME		16	Chloro chromic anhydride	Chloro chromic anhydride	3, 26	Cyanoacetic acid		3, 26
Coal oil		14, 17	Methyl chloromethyl ether	Methyl chloromethyl ether	17, 26	Cyanochloropentane		17, 26
Coal tar		31			11	Cyanogen bromide		11
Cobalt		22, 23, 24			26, 32	Cyanophenphos	Bromine cyanide	26, 32
Cobalt bromide		24			102	Cyanuric triazide	Surecide*	102
Cobalt chloride		24			29	Cycloheptane		29
Cobalt nitrate		24			29	Cyclohexane		29
Cobaltous bromide		24, 104			4	Cyclohexanol		4
Cobaltous chloride		24			19	Cyclohexanone		19
Cobaltous nitrate		24			30	Cyclohexanone peroxide		30
Cobaltous resinate		24, 104			7	Cyclohexylamine		7
Cobaltous resinate		24			107	Cyclohexenyl trichlorosilane		107
Cobaltous sulfate		24			31	Cyclohexyl phenol		31
Cobalt resinate		24			107	Cyclohexyl trichlorosilane		107
Cobalt sulfate		24			29	Cyclopentane		29
Collodion		27			4	Cyclopentanol		4
Copper		23, 24			28	Cyclopentene		28
Copper acetoarsenite		24			29	Cyclopropane		29
Copper acetylde		24, 102, 105, 107			27, 102	Cyclotrimethylene trinitraamine	RDX	27, 102
Copper arsenate		24			16	Cymene		16
Copper arsenite		24			20, 32	Cyolan*	Phospholan	20, 32
Copper chloride		24			3, 17	2,4-D	Dichlorophenoxyacetic acid	3, 17
Copper chlorotetraazole		24			32	Dasanit*	Fensulfothion	32
Copper cyanide		11, 24			17	DCBP	Dibromochloropropane	17
Copper nitrate		24, 104			17	DCB	Dichlorobenzene	17
Copper nitride		24, 25			17	DDD		17
Copper sulfide		24, 24			17	DDNP	Diazodinitrophenol	17
Compound 1836		24, 33, 105			8, 27, 102	DDT		8, 27, 102
Coroxon*		17, 32			17	DDVP	Dichlorovos, Vapona*	17
Coumatfuryl		32			17, 32	DEAC	Diethylaluminum chloride	17, 32
Coumatetraalyl		19			105, 107	Decaborane		105, 107
Cresol		31			107	Decalin	Decalin	107
Cresol glycidyl ether		34			29	Decahydronaphthalene	Decahydronaphthalene	29
Cresote		31			29	Decane	Decane	29
Crimidine		7			4	Decanol	Decanol	4
					28	Decene	Decene	28

RGN	Names	Synonyms	RGN	Names	Synonyms
16	Decyl benzene		17, 32	Diethyl chlorovinyl phosphate	
32	Delnav*		107	Diethyl dichlorosilane	
32	Demeton-s-methyl sulfoxid		14	Diethylene dioxide	
4, 19	Diacetone alcohol		27, 102	Diethylene glycol dinitrate	
19	Diacetyl		13	Diethylene glycol monobutyl ether acetate	
28	Diacetylene		7	Diethylene triamine	
8, 105	Diamine		14	Diethyl ether	
7	Diaminobenzene		19	Dichthyl ketone	
7	Diaminohexane		6	Diethyltoluamide	
8, 102	Diazidoethane		24, 105, 107	Diethyl zinc	Zinc ethyl
32	Diazinon*		101	Diesel oil	
27, 102	Diazodinitrophenol		1	Difluorophosphoric acid	
30, 102	Dibenzoyl peroxide		34	Diglycidyl ether	
105, 107	Diborane		28	Dilsobutylene	
105, 107	Diboron hexahydride		19	Dilsobutyl ketone	
14	Dibutyl ether		4, 17	Dilsopropanolamine	
13	Dibutyl phthalate		30	Dilsopropylbenzene hydroperoxide	
17, 26, 31	3,5-Dibromo-4-hydroxybenzotrile		24, 104, 107	Dilsopropyl beryllium	
17	Dibromochloropropane		14	Dilsopropyl ether	
17	Dibromoethane		30	Dilsopropyl peroxydicarbonate	
17, 19	Dichloroacetone		32	Dimecron*	
104	Dichloroamine		6, 32	Dimefox	
17	Dichlorobenzene		28	Dimethyl acetylene	
17	Dichlorobenzidine		7	Dimethyl amine	
7, 17	Dichlorodimethylsilane		7, 8	Dimethylamino azobenzene	Methyl yellow
107	Dichloroethane		24	Dimethyl arsenic acid	Cacodylic acid
17	Dichloroethene		30	Dimethylbenzyl hydroperoxide	Cumene hydroperoxide
14, 17	Dichloroethylarsine		29	Dimethyl butane	Neohexane
24, 107	Dichloroether		28	Dimethyl butyne	
14, 17	Ethyl ether		107	Dimethyl dichlorosilane	Dichlorodimethylsilane
104	Dichloroisocyanuric acid		32	Dimethyldithiophosphoric acid	
17	Dichloromethane		14	Dimethyl ether	
17	Dichlorophene		19	Dimethyl formal	UDMH
17, 31	Dichlorophenol		6	Dimethyl formamide	Acetone
3, 17	Dichlorophenoxyacetic acid		30	Dimethylhexane dihydroperoxide	
17	Dichloropropane		8	Dimethyl hydrazine	
4, 17	Dichloropropanol		19	Dimethyl ketone	
17	Dichloropropene		105, 107	Dimethyl magnesium	Nitroxylene
107	Dichloropropylene		27	Dimethylnitrobenzene	N-Nitrosodimethyl amine
104	Dichloro-s-triazine-2,4,5-trione		7, 27	Dimethylnitrosoamine	Methyl sulfide
17, 32	Dichlorovos		20	Dimethyl sulfide	
30	Dicumyl peroxide		32	Dimeton	
28	Dicyclopentadiene		27	Dinitrobenzene	Chlorodinitrobenzene
17	Dieldrin		17, 27	Dinitrochlorobenzene	Dinoseb
4, 7	Diethanolamine		27, 31	2,4-Dinitro-6-sec-butyl phenol	DNOC, Elgetol
105, 107	Diethyl aluminum chloride	Aluminum diethylmonochloride, DEAL	27, 31	Dinitrocresol	
7	Diethylamine		27, 31	Dinitrophenol	
16	Diethyl benzene		8, 27	Dinitrophenyl hydrazine	
			27	Dinitrotoluene	

FIGURE 15 7

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Synonyms

RGN	Names	Synonyms
107	Hexadecyl trichlorosilane	
32	Hexaethyl tetraphosphate	
1, 15	Hexafluorophosphoric acid	
105, 107	Hexahydride diborane	Diborane
16	Hexamethyl benzene	Diaminohexane
7	Hexamethylenediamine	
5	Hexamethylenetetraamine	
7, 27, 102	Hexanitrodiphenylamine	Dipicrylamine
4	Hexanol	
3	Hexanoic acid	Caproic acid
28	Hexene	
7	Hexylamine	Aminohexane
107	Hexyl trichlorosilane	
28	Hexyne	
102	HMX	
9	Hopcide*	
10	Hydrated lime	Calcium hydroxide
8, 105	Hydrazine	Diamine
8, 102	Hydrazine azide	
102	Hydrazoic acid	Hydrogen azide
1	Hydroiodic acid	Hydrogen iodide
1, 107	Hydrobromic acid	Hydrogen bromide
1	Hydrochloric acid	Muriatic acid
1, 11	Hydrocyanic acid	Hydrogen cyanide
1, 15	Hydrofluoric acid	Hydrogen fluoride
102	Hydrogen azide	Hydrazoic acid
1, 107	Hydrogen bromide	Hydrobromic acid
1, 11	Hydrogen cyanide	Hydrocyanic acid
1, 15	Hydrogen fluoride	Hydrofluoric acid
1	Hydrogen iodide	Hydroiodic acid
104	Hydrogen peroxide	
105	Hydrogen phosphide	
24, 105	Hydrogen selenide	
33, 105	Hydrogen sulfide	
31	Hydroquinone	
19, 31	Hydroxyacetophenone	
3, 17	Hydroxydibromobenzoic acid	
31	Hydroxydiphenol	
31	Hydroxyhydroquinone	
19, 31	Hydroxyacetophenone	
4, 26	Hydroxyisobutyronitrile	
105	Hydroxyl amine	
4, 26	Hydroxypropionitrile	
2	Hypochlorous acid	
16	Indene	
22, 23, 24	Indium	
17	Inerteen	
107	Iodine monochloride	
104	Iodine pentoxide	

Synonyms

RGN	Names	Synonyms
1, 107	Fluorosulfonic acid	
1, 107	Fluosulfonic acid	
1, 15	Fluosilicic acid	
32	Fonofos*	Dyfonate*
5	Formaldehyde	Methanal
6	Formamide	
6	Formetanate hydrochloride	
3	Formic acid	Methanoic acid
32	Fostlon*	Prothoate
17	Freon*	
3	Fumaric acid	Coumalufuryl
19	Fumarin	Dibromochloropropane
17	Fumazone*	Carbofuran
9	Furadan*	Furfuran
14	Furan	
5	Furfural	
14	Furfuran	
101	Gas oil, cracked	
101	Gasoline	
33, 105	Germanium sulfide	
5	Glutaraldehyde	
4	Glycerin	
34	Glycidol	
13	Glycol diacetate	
27, 102	Glycol dinitrate	Ethylene glycol dinitrate
14	Glycol ether	
3	Glycolic acid	
27, 102	Glycol monolactate trinitrate	
26	Glycolonitrile	
105, 107	Gold acetylide	
102	Gold cyanate	Gold fulminate
102	Gold fulminate	Gold cyanate
33, 105	Gold sulfide	
101	Grease	
31	Gualacol	
8, 102	Guanyl nitrosaminoguanylidene hydrazine	
27, 104	Guanidine nitrate	
27, 102	Gun cotton	Nitrocellulose
32	Guthion*	
22	Hafnium	
6, 32	Hanane*	Dimefox
16	Hemimellitene	
17	Heptachlor	
29	Heptane	
5	Heptanal	
4	Heptanol	
19	Heptanone	
28	Heptene	
105	Hexaborane	
17	Hexachlorobenzene	

FIGURE 15 9

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Synonyms

Lead styphnate
B-Chlorovinylchloroarsite
Calcium nitrate

<u>RGN</u>	<u>Names</u>	<u>Synonyms</u>	<u>RGN</u>	<u>Names</u>
23	Iron	Ferrous arsenate	24, 27, 102	Lead trinitroresorcinate
24	Iron arsenate		24	Lewisite
29	Isobutane		104	Lime nitrate
4	Isobutanol		17	Lindane
13	Isobutyl acetate		21, 107	Lithium
13, 103	Isobutyl acrylate		103, 107	Lithium aluminum hydride
13	Isobutylene		10, 107	Lithium amide
28	Isodecyl acrylate		107	Lithium ferrosilicon
13	Isodurene		105, 107	Lithium hydride
16	Isoeugenol		10	Lithium hydroxide
31	Isohexane	Trimethylpentane	104	Lithium hypochlorite
29	Isohexane		25	Lithium nitride
29	Isocetane		104, 107	Lithium peroxide
28	Isocetene	Methylbutane	107	Lithium silicon
29	Isopentane		33, 105	Lithium sulfide
19	Isophorone	Methyl butadiene	24	London purple
28, 103	Isoprene		10	Lye
4	Isopropanol		21, 22	Magnesium
13	Isopropyl acetate	Aminopropane	24	Magnesium arsenate
28	Isopropyl acetylene	Cumene	24	Magnesium arsenite
7	Isopropylamine	Chloropropane	104	Magnesium chlorate
16	Isopropyl benzene	Diisopropyl ether	15	Magnesium fluoride
17	Isopropyl chloride		104	Magnesium nitrate
14	Isopropyl ether		104	Magnesium perchlorate
20	Isopropyl mercaptan		104	Magnesium peroxide
9	N-Isopropylmethylcarbamate		33, 105	Magnesium sulfide
17, 32	o-Isopropyl methylphosphoryl fluoride	Diisopropyl peroxydicarbonate	32	Malathion
30	Isopropyl percarbonate		3	Maleic acid
101	Isopropyl propylene		3, 26	Malonic nitrile
101	J-100		12	Maneb
101	Jet oil		22, 23, 24	Manganese
101	Kerosene		24	Manganese acetate
101	Lacquer thinner		24	Manganese arsenate
9	Landrin*	Methomyl	24	Manganese bromide
9, 20	Lannate*		24	Manganese chloride
30	Lauroyl peroxide		24	Manganese methylcyclopentadienyl-tricarbonyl
23, 24	Lead	Lead orthoarsenate	24	Manganese nitrate
24	Lead acetate		24, 104	Manganese sulfide
24	Lead arsenate		24, 33, 105	Manganous sulfide
24	Lead arsenite		24	Manganous arsenate
24	Lead azide		24	Manganous bromide
24, 102	Lead carbonate		24	Manganous chloride
24	Lead chlorite		24	Manganous nitrate
24, 104	Lead cyanide		104	Mannitol hexanitrate
11, 24	Lead dinitroresorcinate		27, 102	Mannitol*
24, 27, 102	Lead mononitroresorcinate	Lead arsenate	9	Mayer's reagent
24, 27, 102	Lead nitrate	Lead trinitroresorcinate	24	Medinoterb acetate
24, 104	Lead orthoarsenate		13, 27	Meobal
24	Lead oxide		9	Mercaptobenzoethazole
24, 27, 102	Lead styphnate		8, 20	Mercaptoethanol
24, 33, 104	Lead sulfide		4, 20	

RGN	Names	Synonyms	RGN	Names	Synonyms
32	Mercarbam		4	Methanol	Methyl alcohol
24	Mercuric acetate		9, 20	Methoxyethylmercuric chloride	Lannate*
24	Mercuric ammonium chloride		24	Methyl acetate	Agallolaretan*
24	Mercuric benzoate		13	Methyl acetone	
24	Mercuric bromide		101	Methyl acetylene	Methyl butyne
24	Mercuric chloride		28	Methyl acrylate	
11, 24	Mercuric cyanide		13, 103	Methyl alcohol	Methanol
24	Mercuric dioxysulfate		4	Methyl aluminum sesquibromide	
24	Mercuric iodide		105, 107	Methyl aluminum sesquichloride	
24, 104	Mercuric nitrate		105, 107	Methyl aluminum sesquichloride	
24	Mercuric oleate		7	Methylamine	Aminomethane
24	Mercuric oxide		13	Methyl amyl acetate	
11, 24, 102	Mercuric oxycyanide		7	N-Methyl aniline	
24	Mercuric potassium iodide		7	Methyl aziridine	Propyleneimine
24	Mercuric salicylate	Mayer's reagent	16	Methyl benzene	Toluene
24	Mercuric subsulfate	Salicylated mercury	17	Methyl bromide	Bromomethane
24	Mercuric sulfate	Mercuric dioxysulfate	28, 103	Methyl butadiene	Isoprene
24, 33, 105	Mercuric sulfide	Mercuric sulfate	29	Methyl butane	Isopentane
24	Mercuric thiocyanate		28	Methyl butene	
24	Mercuric thiocyanide	Mercury thiocyanide	14	Methyl butyl ether	
24	Mercurof	Mercury thiocyanate	19	Methyl t-butyl ketone	
24	Mercurous bromide	Mercury nucleate	28	Methyl butyne	Isopropyl acetylene
24	Mercurous gluconate		13	Methyl butyrate	
24	Mercurous iodide		17	Methyl chloride	Chloromethane
24, 104	Mercurous nitrate		13, 17	Methyl chloroformate	Methyl chloroformate
24	Mercurous oxide		13, 17	Methyl chloroform	Methyl chloroformate
24	Mercurous sulfate	Mercury bisulfate	14, 17	Methyl chloromethyl ether	CMME
24	Mercury		26	Methyl cyanide	Acetonitrile
22, 24	Mercury (vapor)		29	Methyl cyclohexane	
24	Mercury acetate	Mercuric acetate	24	Methyl dichloroarsine	
24	Mercury ammonium chloride	Mercuric ammonium chloride	107	Methyl dichlorosilane	
24	Mercury benzoate	Mercuric benzoate	17	Methylene chloride	
24	Mercury bisulfate	Mercurous sulfate	18, 107	Methylene diisocyanate	
24	Mercury chloride	Mercuric chloride	7, 17	4,4-Methylene bis(2-chloroaniline)	
11, 24	Mercury cyanide	Mercuric cyanide	17	Methyl ethyl chloride	
24, 102	Mercury fulminate		14	Methyl ethyl ether	
24	Mercury iodide	Mercuric iodide	19	Methyl ethyl ketone	
24, 104	Mercury nitrate	Mercuric nitrate	30	Methyl ethyl ketone peroxide	
24	Mercury nucleate	Mercuriol	7	Methyl ethyl pyridine	
24	Mercury oleate	Mercuric oleate	13	Methyl formate	
24	Mercury sulfate	Mercuric sulfate	8	Methyl hydrazine	Monomethyl hydrazine
16	Mesitylene	1,3,5-trimethylbenzene	17	Methyl iodide	
19	Mesityl oxide		19	Methyl isobutyl ketone	
9	Mesurof*	Demeton-S-methyl sulfoxid	18, 107	Methyl isocyanate	
32	Metasystox-R		19	Methyl isopropenyl ketone	
12	Metham	Formaldehyde	105, 107	Methyl magnesium bromide	
5	Methanal		105, 107	Methyl magnesium chloride	
29	Methane	Methyl mercaptan	105, 107	Methyl magnesium iodide	
20	Methanethiol	Formic acid	20	Methyl mercaptan	Methanethiol
3	Methanoic acid				

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RGN	Names	Synonyms	RGN	Names	Synonyms
13, 103	Methyl methacrylate		24, 107	Nickel antimoniide	Nickelous arsenate
16	Methyl naphthalene		24	Nickel arsenate	Nickelous arsenite
32	Methyl parathion		24	Nickel arsenite	Nickel tetracarbonyl
13	Methyl pentanoate	Methyl valerate	24	Nickel carbonyl	Nickelous chloride
15	Methyl propionate		24	Nickel chloride	
19	Methyl n-propyl ketone		11, 24	Nickel cyanide	
28, 103	Methyl styrene		24, 104	Nickel nitrate	Nickelous nitrate
20	Methyl sulfide	Dimethyl sulfide	24	Nickelous arsenate	Nickel arsenate
107	Methyl trichlorosilane		24	Nickelous arsenite	Nickel arsenite
13	Methyl valerate	Methyl pentanoate	24	Nickelous chloride	Nickel chloride
19	Methyl vinyl ketone	Butene-2-one	24, 104	Nickelous nitrate	Nickel nitrate
7, 8	Methyl yellow	Dimethylamino azobenzene	24	Nickel selenide	
32	Mevinphos	Phosdrin*	24, 33, 105	Nickel subsulfide	
9	Mexacarbate	Dowco-139*	24	Nickel sulfate	
101	Mineral spirits	Paraoxon	24	Nickel tetracarbonyl	Nickel carbonyl
32	Mintacol*		7, 27	Nitraniline	Nitroaniline
9	Mipcin*		2	Nitric acid	
32	Mobam*		7, 27	Nitroaniline	Nitraniline
32	Mocap*		7, 27	Nitrobenzene	Nitrobenzol
22, 23, 24	Molybdenum		27	Nitrobenzene	Nitrobenzene
24	Molybdenum anhydride	Molybdenum trioxide	27	Nitrobenzol	4-NBP
24	Molybdenum sulfide		27	Nitrobiphenyl	Calcium nitrate
24, 33, 105	Molybdenum trioxide	Molybdenum anhydride	104	Nitrocalcify	Cellulose nitrate, gun cotton
24	Molybdic acid		27, 102	Nitrocellulose	Chloronitrobenzene
24	Monochloroacetone		17, 27	Nitrochlorobenzene	
17, 19	Monochloroacetic acid	Chloroacetone	104	Nitrogen dioxide	
3, 17	Monocrotophos	Chloroacetic acid	27, 102	Nitromannite	Mannitol hexanitrate
32	Monocrotophos	Azodrin*	7, 17	Nitrogen mustard	
4, 7	Monoethanol amine		104	Nitrogen tetroxide	
1	Monofluorophosphoric acid		27, 102	Nitroglycerin	Trinitroglycerin
4, 7	Monoisopropanolamine		2	Nitrohydrochloric acid	
8	Monomethyl hydrazine		27, 31	Nitrophenol	Dimethylnitrosamine
7	Morpholine	Methyl hydrazine	27	Nitropropane	
101	Municipal solid waste	Refuse	7, 27	Nitrosodimethylamine	Starch nitrate
1	Muriatic acid	Hydrochloric acid	27, 102	Nitrosoguanidine	Nitroxylol, Dimethylnitrobenzene
12	Nabam	Sodium-potassium alloy	27, 102	Nitrostarch	Nitroxylyene, Dimethylnitrobenzer
21, 107	Nack	Sodium-potassium alloy	27	Nitroxylene	Dimethylnitrosoamine
21, 107	Nak		27	Nitroxylol	
16	Naphthalene		7, 27	N-Nitrosodimethylamine	
31	Naphthol		31	Nonyl phenol	
7	Naphthylamine		107	Nonyl trichlorosilane	
20	Naphthyl mercaptan		28	Nonane	
27, 102	Naphthite	Trinitronaphthalene	19	Nonanone	
17	Nemagon*	Dibromochloropropane	5	Nonanal	
29	Neohexane	Dimethyl butane	4	Nonanol	
27	4-NBP	Nitrobiphenyl	107	Octadecyl trichlorosilane	
12	Niacide*		28	Octadecyne	
32	Nialate		6, 32	Octamethylpyrophosphoramide	Schradan
22, 24	Nickel	Ethlon	5	Octanal	
24	Nickel acetate		29	Octane	

FIGURE 15 12

RGN	Names	Synonyms	RGN	Names	Synonyms
19	Octanone		31	Phenol	Carbolic acid
4	Octanol		3	Phenyl acetic acid	
28	Octene		26	Phenyl acetone	
30	Octyl peroxide	Caprylyl peroxide	16	Phenyl acetylene	
107	Octyl trichlorosilane		7	Phenylaniline	Diphenylamine
101	Oil of bergamot		16	Phenylbenzene	Diphenyl Butylbenzene
1	Oil of vitriol	Sulfuric acid	16	Phenylbutane	Chloroacetophenone
2, 24	Oleum	Sulfuric acid	17, 19	Phenylchloromethyl ketone	
101	Orris root	o-Phenyl phenol	24	Phenyl dichloroarsine	
31	Orthozenol		7	Phenylene diamine	Diaminobenzene Ethylbenzene
23, 24	Osmium		16	Phenylethane	
24, 104	Osmium amine nitrate		8	Phenyl hydrazine hydrochloride	Orthozenol, Dowicide I
24, 104	Osmium amine perchlorate		31	o-Phenyl phenol	
9	Oxamyl		107	Phenyl trichlorosilane	
3	Oxalic acid		26	Phenyl valerylnitrile	
104, 107	Oxygen difluoride		16	Phenylpropane	Propylbenzene
17	PCB	Polychlorinated biphenyl	31	Phloroglucinol	
101	Paper		32	Phorate	Thimet*
32	Paraaxon	Mintacol*	32	Phosdrin*	Mevinphos
32	Parathion		32	Phosphamidon	Dimecron*
24	Paris green	Copper acetoarsenite	105	Phosphine	Hydrogen phosphide
12	PETD	Polyram combi*	20, 32	Phospholan	Cyolan*
	PETN	Pentaerythrityl tetranitrate, Pentaerythritol tetranitrate	105, 107	Phosphonium iodide	
27, 102	Pentaborane		1	Phosphoric acid	Phosphorus pentoxide
105	Pentachlorophenol		107	Phosphoric anhydride	Phosphorus pentasulfide
17, 31	Pentaerythritol tetranitrate	Pentaerythrityl tetranitrate, PETN	33, 105, 107	Phosphoric sulfide	
27, 102	Pentamethyl benzene		105, 107	Phosphorus (Amorphous red)	
16	Pentane		105	Phosphorus (White-Yellow)	
29	Pentanol		33, 105	Phosphorus heptasulfide	Phosphoryl bromide
20	Pentanthalol	Amyl mercaptan	104, 107	Phosphorus oxybromide	Phosphoryl chloride
5	Pentanal	Valeraldehyde	104, 107	Phosphorus oxychloride	Phosphoric chloride
19	Pentanone		107	Phosphorus pentachloride	Phosphoric sulfide
28	Pentene		33, 105, 107	Phosphorus pentasulfide	Phosphoric anhydride
7	Pentylamine		107	Phosphorus pentoxide	Tetrahydrophosphorus trisulfide
28	Pentyne		33, 105, 107	Phosphorus sesquisulfide	
3, 30	Peracetic acid	Peroxyacetic acid	107	Phosphorus tribromide	
2	Perbromic acid		107	Phosphorus trichloride	
2	Perchloric acid		33, 105, 107	Phosphorus trisulfide	Phosphorus oxybromide
17	Perchloroethylene	Tetrachloroethylene	104, 107	Phosphoryl bromide	Phosphorus oxychloride
17, 20	Perchloromethyl mercaptan	Trichloromethylsulfenylchloride	104, 107	Phosphoryl chloride	
2	Perchlorous acid		3	Phthalic acid	
104	Perchloryl fluoride		7, 27, 102	Picramide	
2	Periodic acid		27, 31, 102	Picric acid	
1	Permonosulfuric acid		7	Picridine	
3, 30	Peroxyacetic acid	Peracetic acid	17, 27, 102	Picryl chloride	Chlorotrinitrobenzene
12	r-ETD	Polyram combi*	7	Piperidine	
101	Petroleum naphtha		9	Pirimicarb	
101	Petroleum oil		14	Polyglycol ether	
16	Phenanthrene		101	Polyamide resin	
7, 24	Phenarsazine chloride	Diphenylamine chloroarsine	17	Polybrominated biphenyl	

FIGURE 15 13

<u>RGN</u>	<u>Names</u>	<u>Synonyms</u>	<u>RGN</u>	<u>Names</u>	<u>Synonyms</u>
28	Polybutene		13	Propiolactone	
17	Polychlorinated biphenyls	PCB, Askarel, Arochlor*, Chlorextol, Inerteen	5	Propionaldehyde	Propanal
17	Polychlorinated triphenyls		6	Propionamide	Propanoic acid
101	Polethylene		3	Propionic acid	
101	Polyester resin		26	Propionitrile	
101	Polymeric oil		13	Propyl acetate	Propanol
18, 107	Polyphenyl polymethylisocyanate		4	Propyl alcohol	Phenyl propane
28, 101	Polypropylene	PETD	7	Propylamine	Dichloropropane
20, 101	Polyram combi*		16	Propyl benzene	
101	Polysulfide polymer		17	Propylene dichloride	
101	Polystyrene		4	Propylene glycol	
101	Polyurethane		4, 14	Propylene glycol monomethyl ether	
101	Polyvinyl acetate		34, 103	Propylene oxide	
101	Polyvinyl chloride		7	Propyleneimine	Methyl aziridine
101	Polyvinyl nitrate		14	Propyl ether	
27, 102	Potasan		13	Propyl formate	Propanethiol
32	Potassium		20	Propyl mercaptan	
21, 107	Potassium acid fluoride	Potassium fluoride	107	Propyl Trichlorosilane	
15	Potassium aluminate		32	Prothoate	Foston*
10	Potassium arsenate		16	Pseudocumene	1,2,4 trimethylbenzene
24	Potassium arsenite		7	Pyridine	
24	Potassium bifluoride		31	Pyrogallol	
15	Potassium bichromate	Potassium fluoride Potassium dichromate	107	Pyrosulfuryl chloride	Disulfuryl chloride
24, 104	Potassium bromate		27	Pyroxylin	Collodion
104	Potassium butoxide		19	Quinone	Benzoquinone
10	Potassium cyanide		22	Raney nickel	
11	Potassium dichloroisocyanurate		27, 102	RDX	Cyclotrimethylene trinitramin
104	Potassium dichromate	Potassium bichromate	101	Refuse	Municipal solid waste
24, 104	Potassium dichromate		101	Resins	
27, 102	Potassium dinitrobenzofuroxan		31	Resorcinol	
15	Potassium fluoride	Potassium acid fluoride	21	Rubidium	
105, 107	Potassium hydride		24	Salicylated mercury	
10	Potassium hydroxide		31	Saligenin	Mercuric salicylate
102, 104	Potassium nitrate	Caustic potash	104	Salt peter	Potassium nitrate
104	Potassium nitride	Salt peter	6, 32	Schradan	Octamethyl pyrophosphoramid OMPA
107	Potassium oxide		1, 24	Selenious acid	Selenous acid
104	Potassium perchlorate		22, 23, 24	Selenium	
24, 104	Potassium permanganate		12, 24	Selenium diethyldithiocarbamate	
104, 107	Potassium peroxide		15, 24	Selenium fluoride	
33, 105	Potassium sulfide		1, 24	Selenous acid	Selenious acid
9	Promecarb		107	Silicochloroform	Trichlorosilane
5	Propanal	Propionaldehyde	107	Silicon tetrachloride	
29	Propane		15, 107	Silicon tetrafluoride	
20	Propanethiol	Propyl mercaptan	24, 102, 103, 107	Silver acetylide	
3	Propanoic acid	Propionic acid	24, 102	Silver azide	
4	Propanol	Propyl alcohol	11, 24	Silver cyanide	
17	Propargyl bromide		24, 104	Silver nitrate	
17	Propargyl chloride		24, 25, 102	Silver nitride	
4	2-Propen-1-ol	Allyl alcohol	24, 27, 102	Silver styphnate	Silver trinitroresorcinate

FIGURE 15 14

RGJ	Names	Synonyms	RGJ	Names	Synonyms
24, 33, 105	Silver sulfide		24, 33, 105	Sodium sulfide	
24, 102	Silver tetrazeno		105	Sodium thiosulfate	
24, 27, 102	Silver trinitroresorcinol	Silver styphnate	24, 107	Stannic chloride	Tin tetrachloride
10, 107	Slaked lime	Calcium oxide	33, 105	Stannic sulfide	
102	Smokeless powder		27, 102	Starch nitrate	Nitrostarch
10, 107	Sodamide	Sodium amide	16	Stilbene	Diphenyl ethylene
104	Soda niter	Sodium nitrate	101	Stoddard solvent	
21, 105, 107	Sodium		24	Strontium	
10, 105	Sodium acid fluoride	Sodium fluoride	24	Strontium arsenate	Strontium peroxide
10, 105	Sodium aluminate		24, 104	Strontium dioxide	
105, 107	Sodium aluminum hydride		24, 33, 105	Strontium monosulfide	
10, 107	Sodium amide		24, 104	Strontium nitrate	
24	Sodium arsenate		104	Strontium peroxide	Strontium dioxide
74	Sodium arsenite		24, 33, 105	Strontium tetrasulfide	
102	Sodium azide		27, 31, 102	Styphnic acid	Trinitroresorcinol
24, 104	Sodium bichromate	Sodium dichromate	16, 28, 103	Styrene	Vinylbenzene
15	Sodium bifluoride	Sodium fluoride	3	Succinic acid	
104	Sodium bromate		30	Succinic acid peroxide	
24	Sodium cacodylate		107	Sulfonyl chloride	Sulfuryl chloride
10	Sodium carbonate	Sodium dimethylarsenate	107	Sulfonyl fluoride	Dithione*, Blada-Fum*
104	Sodium carbonate peroxide		32	Sulfotep	Sulfur monochloride
104	Sodium chlorate		107	Sulfur chloride	
104	Sodium chlorite		101	Sulfur (elemental)	
24	Sodium chromate		2, 107	Sulfuric acid	Oil of Vitriol, Oleum
11	Sodium cyanide		104, 107	Sulfuric anhydride	Sulfur trioxide
104	Sodium dichloroisocyanurate		107	Sulfur monochloride	Sulfur chloride
24, 104	Sodium dichromate	Sodium bichromate	20	Sulfur mustard	
24	Sodium dimethylarsenate	Sodium cacodylate	107	Sulfur oxochloride	Thionyl chloride
15	Sodium fluoride	Sodium acid fluoride	15, 107	Sulfur pentafuoride	Sulfuric anhydride
105, 107	Sodium hydride		104, 107	Sulfur trioxide	Sulfonyl chloride
10	Sodium hydroxide	Caustic soda, Lye	107	Sulfuryl chloride	Sulfuryl fluoride
10, 104	Sodium hypochlorite		32	Supracide*	Ultradice*
105	Sodium hyposulfite		32	Surecide*	Cyanophenphos
10, 107	Sodium methylate		101	Synthetic rubber	Tetrachlorodibenzo-p-dioxin
10, 107	Sodium methoxide		14, 17	TCDD	Tetraethyl dithionopyrophosphate
24	Sodium molybdate		32	TEBP	Tetraethyl lead
10, 107	Sodium monoxide	Sodium oxide	24	TEPA	Tris-(1-aziridinyl) phosphine oxide
104	Sodium nitrate	Soda niter	6, 32	TEPP	Tetraethyl pyrophosphate
25	Sodium nitride		32	TEPP	Tetrahydrofuran
104	Sodium nitrite		14	THF	Trimethylamine
10, 107	Sodium oxide	Sodium monoxide	7	TMA	Trimethylamine lead
31	Sodium pentachlorophenate		24	TML	Tetramethyl lead
104	Sodium perchlorate		27, 102	TNB	Trinitrobenzene
24, 104	Sodium permanganate		27, 102	TNT	Trinitrotoluene
104, 107	Sodium peroxide		101	Tall oil	
31	Sodium phenolsulfonate		101	Tallow	
27, 102	Sodium picramate		101	Tar	
101	Sodium polysulfide		15, 24	Tellurium hexafluoride	
21, 107	Sodium potassium alloy	Nak, Nack	9, 20	Temik*	Aldicarb
24	Sodium selenate				

FIGURE 15 15

RGN	Names	Synonyms	RGN	Names	Synonyms
105	Tetraborane		7	Toluidine	
14, 17	Tetrachlorodibenzo-p-dioxin	TCDD	16	Toluol	Aminotoluene
17	Tetrachloroethane		6	Topcide*	Toluene, Methylbenzene
17	Tetrachloroethylene	Perchloroethylene	9, 26	Triamid*	Benzadox
17	Tetrachloromethane	Carbon tetrachloride	6, 32	Triampios	Wepsyn* 155
17, 31	Tetrachlorophenol		17	Tribromomethane	Bromoform
14, 17	Tetrachloropropyl ether		107	Tri-n-butylaluminum	
28	Tetradecene		24, 25	Tricadmium dinitride	
32	Tetraethyl dithionopyrophosphate	TEDP	24, 25	Tricalcium dinitride	
24	Tetraethyl lead	TEL	24, 25	Tricesium nitride	
32	Tetraethyl pyrophosphate	TEPP	5, 17	Trichloroacetaldehyde	Chloral hydrate
14	Tetrahydrofuran	THF	107	Trichloroborane	
7	Tetramethylenediamine	TML	17	Trichloroethane	Trichloroethylene
24	Tetramethyl lead		17	Trichloroethene	
26	Tetramethyl succinonitrile		104	Trichloroisocyanuric acid	
27, 102	Tetranitromethane		17	Trichloromethane	Chloroform
16	Tetraphenyl ethylene		17, 20	Trichloromethyl sulfenyl chloride	Perchloromethyl mercapt
33, 105, 107	Tetraphosphorus trisulfide	Phosphorus sesquisulfide	17, 27, 102	Trichloronitromethane	Chloropicrin
24, 25, 102	Tetraselenium tetranitride		3, 17	Trichlorophenoxyacetic acid	
20	Tetrasul	Animer* V-101	17	Trichloropropane	
25, 102	Tetrasulfur tetranitride		107	Trichlorosilane	Sillichloroform
8, 102	Tetrazene		28	Tridecene	
24	Thallium		4, 7	Triethanolamine	
24, 25, 102	Thallium nitride		105, 107	Triethyl aluminum	
24, 33, 105	Thallium sulfide		24, 105, 107	Triethyl antimony	Triethylstibine
24	Thalious sulfate		24, 107	Triethyl arsine	
32	Thimet*		24	Triethyl bismuthine	
107	Thionyl chloride	Phorate	7	Triethylamine	Tris(1-aziridinyl) phosphine oxide
107	Thiocarbonyl chloride	Sulfur oxychloride	6, 32	Triethylene phosphoramidate	
17, 20	Thiodan*	Thiophosgene	7	Triethylene tetraamine	
32	Thionazin	Endosulfan	24, 105, 107	Triethyl stibine	Triethyl antimony
107	Thiophosgene	Zinophos*	17	Trifluoroethane	Benzotrifluoride
107	Thiophosphoryl chloride	Sulfur oxychloride	17	Trifluoromethylbenzene	
12	Thiram	Thiocarbonyl chloride	105, 107	Trisobutyl aluminum	
22, 23, 24	Thorium	Stannic chloride	24, 25, 102	Trilead dinitride	
24, 107	Tin tetrachloride	Titanium tetrachloride	24, 25, 102	Trimercury dinitride	
24, 107	Titanic chloride		105, 107	Trimethyl aluminum	
22, 23, 24	Titanium		7	Trimethylamine	TMA
24, 33, 105	Titanium sesquisulfide		24, 105	Trimethyl antimony	Trimethylstibine
24	Titanium sulfate		24, 107	Trimethyl arsine	Pseudocumene
24, 33, 105	Titanium sulfide		16	1,2,4-Trimethylbenzene	Mesitylene
24, 24, 107	Titanium tetrachloride		16	1,3,5-Trimethylbenzene	
7	TMA		24	Trimethyl bismuthine	Isocotane
27, 102	TNB	Titanic chloride	29	Trimethyl pentane	Triethyl antimony
27, 102	TNT	Trimethylamine	24, 105, 107	Trimethylstibine	
5	Tolualdehyde	Trinitrobenzene	7, 27, 102	Tri-n-butylborane	Picramide
16	Toluene	Trinitrotoluene	14, 27	Trinitroaniline	Trinitrophenylmethyl eth
18, 107	Toluene diisocyanate	Toluol, Methylbenzene	27, 102	Trinitroanisole	TNB
3	Toluic acid			Trinitrobenzene	

FIGURE 15 16

StaO 6280.3D
03 NOV 1997

ENVIRONMENTAL AREA OF RESPONSIBILITY/ROGUE DRUM(S)

4. Rogue Drum Points of Contact:

<u>Compliance Division</u>	<u>Telephone Extension</u>
Compliance Division Manager	5580/3201
Compliance Division Officer I	3460
Compliance Division Officer II	3161
Compliance Division Officer III	2605
Environmental Protection Specialist I	5582
<u>Engineering Division</u>	
Installation Restoration Program Manager	5215
Environmental Engineer	5581
Underground Storage Tank Program Manager	3162
<u>Natural Resource Specialist</u>	
Environmental Writer	2675

ENCLOSURE (2)

ENVIRONMENTAL AREA OF RESPONSIBILITY/ROGUE DRUM(S)

1. Background. Procedures are mandated for the protection of human health and the environment. Federal and State laws define discarded or abandoned drums as rogue drums. Rogue drums containing unknown substances from processes of unknown origin, which may spill, leak, or emit into any water, including ground water, is a violation under the provisions of reference (g). The environment is defined as any surface water, ground water, drinking water supply, land surface, subsurface strata, or ambient air within the United States.

2. Information. This program is of extreme importance as evidenced by the heavy penalties associated with non-compliance. Per references (c) and (d), each violation may result in a fine up to \$25,000 per day, imprisonment for up to one year, or both (unless specifically excluded). Any rogue drum known or suspected of containing hazardous waste/hazardous material will be handled through the procedures set forth in this directive.

3. Action

a. All organizations aboard MCAS Yuma will be active in reporting rogue drums in their areas of responsibility per reference (k), "Facilities Assigned". The reporting unit will not be assessed the full cost of handling, sampling, testing, recovering, and disposal. Costs incurred will be divided equally by all organizations aboard MCAS Yuma. Funding will be drawn per reference (f).

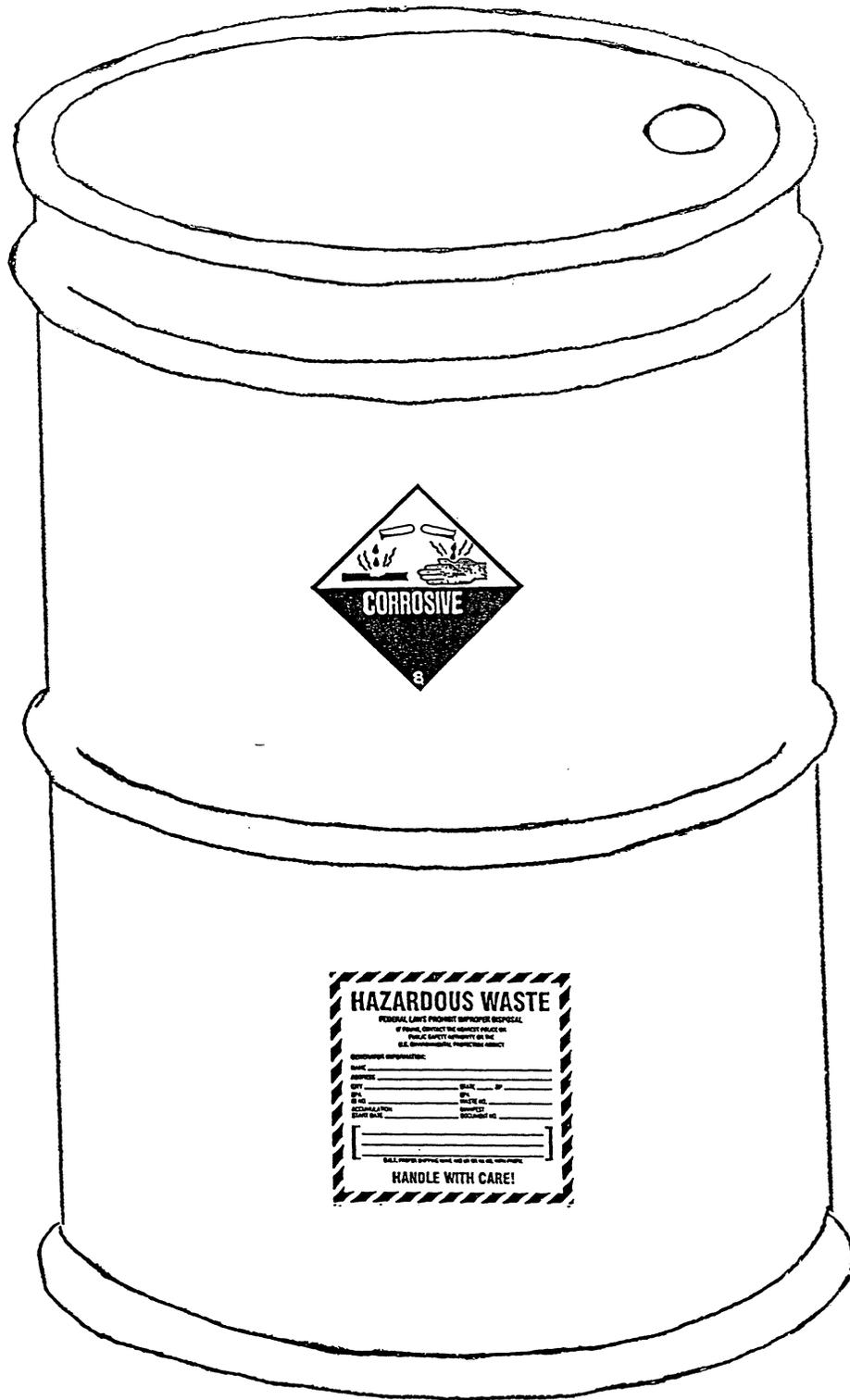
b. Should MCAS Yuma environmental personnel discover any rogue drum(s) that have not been reported or accounted for, that unit will be assessed the full cost incurred for handling, sampling, testing, recovering, and disposal of the rogue drum(s).

c. Should MCAS Yuma environmental personnel discover any rogue drum(s) that are not in any organization's area of responsibility, then paragraph 3a above will apply.

d. Environmental personnel will provide handling instructions for rogue drums as requested. Rogue drums will be processed through the system by hazardous waste coordinators during training classes.

e. The Environmental Director, Environmental Department, MCAS Yuma, is charged with overall responsibility for this Order.

ENCLOSURE (2)



HAZARDOUS WASTE MARKING AND LABELING REQUIREMENTS

FIGURE 15

HAZARDOUS WASTE
FEDERAL LAW PROHIBITS IMPROPER DISPOSAL

PROPER D.O.T. SHIPPING NAME

IF FOUND, CONTACT THE NEAREST POLICE
OR PUBLIC SAFETY AUTHORITY OR
U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERATOR INFORMATION:

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

E P A IDENTIFICATION NO _____

MANIFEST DOCUMENT NO _____

ACCUMULATION START DATE _____

CONTAINS HAZARDOUS OR TOXIC WASTES

HANDLE WITH CARE!

FIGURE 15

RGN	Names	Synonyms	RGN	Names	Synonyms
3, 27, 102	Trinitrobenzoic acid		17, 103	Vinylidene chloride	VC
27, 102	Trinitroglycerin	Nitroglycerin	28, 103	Vinyl toluene	
27, 102	Trinitronaphthalene	Naphthite	107	Vinyl trichlorosilane	
27, 31, 102	Trinitrophenol	Picric acid	20, 32	VX	
14, 27	Trinitrophenyl methyl ether	Trinitroanisole	106	Water	
27, 31, 102	Trinitroresorcinol	Styphnic acid	101	Waxes	Triamiphos
27, 102	Trinitrotoluene	TNT	6, 32	Wepsyn* 155	
105, 107	Triethyl aluminum		101	Wood	
16	Triphenyl ethylene		9	Zectran*	
16	Triphenyl methane		22, 23, 24	Zinc	Dowco 139*
7	Tripopylamine		24, 105, 107	Zinc acetylalide	
24, 107	Tripopyl stibine		24, 104	Zinc ammonium nitrate	
24, 107	Trisilyl arsine		24	Zinc arsenate	
	Tris-(1-aziridinyl) phosphine oxide	TEPA, Triethylene phosphoramidate	24	Zinc arsenite	
6, 32	Triithion		24	Zinc chloride	
32	Trithorium tetranitride		24, 102, 104, 107	Zinc dioxide	Zinc peroxide
24, 25	Trivinyl stibine		24, 105, 107	Zinc ethyl	Diethyl zinc
24, 107	Tsumacide*		11, 24	Zinc cyanide	
9	Tungstic acid		24, 15	Zinc fluoborate	
24	Turpentine		24, 104	Zinc nitrate	
101	UDMH		24, 104	Zinc permanganate	
8	Ultracide*	Dimethyl hydrazine Supracide*	24, 104, 107	Zinc peroxide	Zinc dioxide
28	Undecene		24, 107	Zinc phosphide	
101	Unisolve		12, 24	Zinc salts of dimethyl dithiocarbamic acid	
24, 104	Uranium nitrate	Uranyl nitrate	24	Zinc sulfate	
24, 33, 105	Uranium sulfide	Uranium nitrate	24, 33, 105	Zinc sulfide	
24, 104	Uranyl nitrate		12, 24	Zineb*	
5	Urea formaldehyde		20	Zinophos*	Thioazin
27, 102, 104	Urea nitrate		12, 24	Ziram*	
17, 103	VC	Vinylidene chloride	22, 23, 24	Zirconium chloride	Zirconium tetrachloride
5	Valeraldehyde	Pentanal	24, 104	Zirconium picramate	
6	Valeramide		24	Zirconium tetrachloride	Zirconium chloride
3	Valeric acid				
24	Vanadic acid anhydride	Vanadium pentoxide			
24	Vanadium oxytrichloride	Vanadic acid anhydride			
24	Vanadium pentoxide	Vanadyl sulfate			
24	Vanadium sulfate				
24	Vanadium tetroxide				
24, 107	Vanadium trichloride				
24	Vanadium trioxide				
24	Vanadyl sulfate	Vanadium sulfate			
32	Vapona*	DDVP			
13, 103	Vinyl acetate				
102	Vinyl azide				
16, 28, 103	Vinylbenzene	Styrene			
17, 103	Vinyl chloride				
26, 103	Vinyl cyanide				
14	Vinyl ethyl ether				
17	Vinyl isopropyl ether				

FIGURE 15