

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER b: PERMITS

PART 702
RCRA AND UIC PERMIT PROGRAMS

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AUTHORITY: Implementing Section 13 and 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1988 Supp., ch. 111 1/2, pars. 1013, 1022.4 and 1027).

SOURCE: Adopted in R81-32, 47 PCB 93, at 6 Ill. Reg. 12479, effective as noted in 35 Ill. Adm. Code 700.106; amended in R82-19 at at, 53 PCB 131, 7 Ill. Reg. 14352, effective as noted in 35 Ill. Adm. Code 700.106; amended in R84-9 at 9 Ill. Reg. 11926, effective July 24, 1985; amended in R85-23 at 10 Ill. Reg. 13274, effective July 29, 1986; amended in R86-1 at 10 Ill. Reg. 14085, effective August 12, 1986, amended in R86-28 at 11 Ill. Reg. 6131, effective March 24, 1987; amended in R87-5 at 11 Ill. Reg. 19375, effective November 12, 1987; amended in R87-26 at 12 Ill. Reg. 2579, effective January 15, 1988; amended in R87-29 at 12 Ill. Reg. 6673, effective March 28, 1988; amended in R87-39 at 12 Ill. Reg. 13083, effective July 29, 1988; amended in R89-1 at 13 Ill. Reg. , effective November 13, 1989; amended in R89-9 at 14 Ill. Reg. , effective

SUBPART B: PERMIT APPLICATIONS

Section 702.122 Completeness

The Agency shall not issue a permit under a program (RCRA or UIC) before receiving a complete application for a permit under that program except for emergency permits. An application for a permit under a program is complete when the Agency receives an application form and any supplemental information which are completed to its satisfaction. (35 Ill. Adm. Code 705.122). An application for a permit is complete notwithstanding the failure of the owner or operator to submit the exposure information described in 35 Ill. Adm. Code 703.186 (RCRA). The Agency may deny a permit for the active life of a hazardous waste management facility or unit before receiving a complete application for a permit. (RCRA)

~~-(Board Note: See-BOARD NOTE: Derived from 40 CFR 144.31(d) and 270.10(c), as amended at 54 Fed. Reg. 9607, March 7, 1989.~~

Source: Amended at 14 Ill. Reg. effective

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
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PART 703
RCRA PERMIT PROGRAM

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Appendix A Classification of Permit Modifications

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1988 Supp., ch. 111 1/2, pars. 1022.4 and 1027).

SOURCE: Adopted in R82-19, 53 PCB 131, at 7 Ill. Reg. 14289, effective October 12, 1983; amended in R83-24 at 8 Ill. Reg. 206, effective December 27, 1983; amended in R84-9 at 9 Ill. Reg. 11899, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 1110, effective January 2, 1987; amended in R85-23 at 10 Ill. Reg. 13284, effective July 28, 1986; amended in R86-1 at 10 Ill. Reg. 14093, effective August 12, 1986; amended in R86-19 at 10 Ill. Reg.

20702, effective December 2, 1986; amended in R86-25 at 11 Ill. Reg. 6121, effective March 24, 1987; amended in R86-46 at 11 Ill. Reg. 13543, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19375, effective November 12, 1987; amended in R87-26 at 12 Ill. Reg. 2584, effective January 15, 1988; amended in R87-39 at 12 Ill. Reg. 13069, effective July 29, 1988; amended in R88-16 at 13 Ill. Reg. 477, effective December 27, 1988; amended in R89-1 at 13 Ill. Reg. , effective November 13, 1989; amended in R89-9 at 14 Ill. Reg. .

PART B: PROHIBIT

Section 703.121 RCRA Permits

- a) No person shall conduct any hazardous waste storage, hazardous waste treatment or hazardous waste disposal operation:
 - 1) Without a RCRA permit for the HWM (hazardous waste management) facility; or
 - 2) In violation of any condition imposed by a RCRA permit;
- b) Owners and operators of HWM units ~~must~~ shall have permits during the active life (including the closure period) of the unit. Owners and operators of surface impoundments, landfills, land treatment units and waste pile units that received wastes after July 26, 1982, or that certified closure (according to 35 Ill. Adm. Code 725.215) after January 26, 1983, ~~must~~ shall have post-closure permits, unless they demonstrate closure by removal as provided under Sections 703.159 and 703.160. If a post-closure permit is required, the permit must address applicable 35 Ill. Adm. Code 724 groundwater monitoring, unsaturated zone monitoring, corrective action and post-closure care requirements.
- c) The denial of a permit for the active life of a hazardous waste management facility or unit does not affect the requirement to obtain a post-closure permit under this Section.

~~-(BOARD NOTE: See-BOARD NOTE: Derived from 40 CFR 270.1(c) -(1987), as amended at 52 Fed. Reg. 45787, December 1, 1987)-~~(1988), as amended at 54 Fed. Reg. 9607, March 7, 1989.

(Source: Amended at 14 Ill. Reg. , effective)

SUBPART C: AUTHORIZATION BY RULE AND INTERIM STATUS

Section 703.155 Changes During Interim Status

- a) -New hazardous wastes not previously identified in Part A of the permit application may be treated, stored or disposed of at a facility -Except as provided in subsection (b), the owner or operator of an interim status facility may make the following changes at the facility:
 - 1) Treatment, storage or disposal of new hazardous wastes not

previously identified in Part A of the permit application (and, in the case of newly listed or identified wastes, addition of the units being used to treat, store or dispose of the hazardous wastes on the date of the listing or identification) if the owner or operator submits a revised Part A permit application prior to such ~~a change~~-treatment, storage or disposal;

b 2) Increases in the design capacity of processes used at ~~a~~the facility ~~may be made~~ if the owner or operator submits a revised Part A permit application prior to such a change (along with a justification explaining the need for the change) and the Agency approves the change because ~~of~~:

A) There is a lack of available treatment, storage or disposal capacity at other hazardous waste management facilities;
or

B) The change is necessary to comply with a federal, State or local requirement, including 35 Ill. Adm. Code 725, 728 or 729.

e 3) Changes in the processes for the treatment, storage or disposal of hazardous waste may be made at a facility or addition~~at~~ of processes ~~may be added~~ if the owner or operator submits a revised Part A permit application prior to such a change (along with a justification explaining the need for change) and the Agency approves the change because:

1 A) ~~It~~The change is necessary to prevent a threat to human health or the environment because of an emergency situation; or

2 B) ~~It~~The change is necessary to comply with ~~Federal and State regulations~~a federal, State or local requirement, including 35 Ill. Adm. Code 725, 728 or 729;

d 4) Changes in the ownership or operational control of a facility ~~may be made~~ if the new owner or operator submits a revised Part A permit application no later than 90 days prior to the scheduled change. When a transfer of ownership or operational control of a facility occurs, the old owner or operator shall comply with the requirements of 35 Ill. Adm. Code 725.Subpart H (financial requirements), until the new owner or operator has demonstrated to the Agency that it is complying with the requirements of that Subpart. The new owner or operator shall demonstrate compliance with the financial assurance requirements within six months after the date of the change in the ownership or operational control of the facility. Upon demonstration to the Agency by the new owner or operator of compliance with the financial assurance requirements, the Agency shall notify the old owner or operator in writing that the old owner or operator no longer needs to comply with 35 Ill. Adm. Code 725.Subpart H as of the date of demonstration. All other interim status duties are transferred effective immediately upon the date of

the change of ownership or operational control of the facility;

- 5) Changes made in accordance with an interim status corrective action order issued by: USEPA under Section 3008(h) of the Resource Conservation and Recovery Act or other federal authority; a court pursuant to a judicial action brought by USEPA; a court pursuant to the Environmental Protection Act; or, the Board. Changes under this subsection are limited to the treatment, storage or disposal of solid waste from releases that originate within the boundary of the facility.
- b) ~~In no event shall changes be made to an HWM facility during interim status which-~~ Except as specifically allowed under this subsection, changes listed under subsection (a) must not be made if they amount to reconstruction of the HWM facility. Reconstruction occurs when the capital investment in the changes to the facility exceeds fifty percent of the capital cost of a comparable entirely new HWM facility. If all other requirements are met, the following changes may be made even if they amount to a reconstruction:
- 1) Changes under this Section do not include ~~Changes made solely for the purpose of complying with requirements of 35 Ill. Adm. Code 725.293 for tanks and ancillary equipment.~~
 - 2) If necessary to comply with federal, State or local requirements, including 35 Ill. Adm. Code 725, 728 or 729, changes to an existing unit, changes solely involving tanks or containers, or addition of replacement surface impoundments that satisfy the statutory standards of Section 35 Ill. Adm. Code 728.139.
 - 3) Changes that are necessary to allow owners or operators to continue handling newly listed or identified hazardous wastes that have been treated, stored or disposed of at the facility prior to the effective date of the rule establishing the new listing or identification.
 - 4) Changes during closure of a facility or of a unit within a facility made in accordance with an approved closure plan.
 - 5) Changes necessary to comply with an interim status corrective action order issued by: USEPA under Section 3008(h) of the Resource Conservation and Recovery Act or other federal authority; a court pursuant to a judicial action brought by USEPA; a court pursuant to the Environmental Protection Act; or, the Board. Changes under this subsection are limited to the treatment, storage or disposal of solid waste from releases that originate within the boundary of the facility.
 - 6) Changes ~~prohibited under this Section do not include~~ changes to treat or store, in containers or tanks or containers, hazardous wastes subject to land disposal restrictions imposed in 35 Ill. Adm. Code 728, provided that such changes are made solely for the purpose of complying with 35 Ill. Adm. Code 728.

~~-(BOARD NOTE: See-BOARD NOTE: Derived from 40 CFR 270.72~~
~~-(1987), as amended at 52 Fed. Reg. 45787, December 1, 1987.)-~~
(1988), as amended at 54 Fed. Reg. 9607, March 7, 1989.

Source: Amended at 14 Ill. Reg. , effective

Section 703.157 Grounds for Termination of Interim Status

Interim status terminates when:

- a) Final administrative disposition of a permit application is made; or
- b) The owner or operator fails to furnish a requested Part B application on time, or to furnish the full information required by the Part B application, in which case the Agency shall notify the owner and operator of the termination of interim status following the procedures for a notice of intent to deny a permit pursuant to 35 Ill. Adm. Code 705.
- c) For owners or operators of each land disposal facility which has been granted interim status prior to November 8, 1984, on November 8, 1985, unless:
 - 1) The owner or operator submits a Part B application for a permit for such facility prior to that date; and
 - 2) The owner or operator certifies that such facility is in compliance with all applicable groundwater monitoring and financial responsibility requirements.
- d) For owners or operators of each land disposal facility which is in existence on the effective date of statutory or regulatory amendments under the Resource Conservation and Recovery Act that render the facility subject to the requirement to have a RCRA permit and which is granted interim status, twelve months after the date on which the facility first becomes subject to such permit requirement unless the owner or operator of such facility:
 - 1) Submits a Part B application for a RCRA permit for such facility before the date 12 months after the date on which the facility first becomes subject to such permit requirement; and
 - 2) Certifies that such facility is in compliance with all applicable groundwater monitoring and financial responsibility requirements.
- e) For owners or operators of any land disposal unit that is granted authority to operate under Section 703.155(a)(1), (2) or (3), on the day 12 months after the effective date of such requirement, unless the owner or operator certifies that such unit is in compliance with all applicable groundwater monitoring and financial responsibility requirements. (35 Ill. Adm. Code 725.190 et seq. and 725.240 et seq.)

- f) For owners and operators of each incinerator facility on November 8, 1989, unless the owner or operator of the facility submits a Part B application for a RCRA permit for an incinerator facility by November 8, 1986.
- g) For owners and operators of any facility (other than a land disposal or an incinerator facility) on November 8, 1992, unless the owner or operator of the facility submits a Part B application for a RCRA permit for the facility by November 8, 1988.

~~-(Note: See-~~BOARD NOTE: Derived from 40 CFR 270.10(e)(5) (1988) and 270.73--(1988), as amended at 54 Fed. Reg. 9607, March 7, 1989

Source: Amended at 14 Ill. Reg. , effective

SUBPART D: APPLICATIONS

Section 703.183 General Information

The following information is required in the Part B application for all HWM facilities, except as 35 Ill. Adm. Code 724.101 provides otherwise:

- a) A general description of the facility;
- b) Chemical and physical analyses of the hazardous wastes to be handled at the facility. At a minimum, these analyses must contain all the information which must be known to treat, store or dispose of the wastes properly in accordance with 35 Ill. Adm. Code 724;
- c) A copy of the waste analysis plan required by 35 Ill. Adm. Code 724.113(b) and, if applicable, 35 Ill. Adm. Code 724.113(c);
- d) A description of the security procedures and equipment required by 35 Ill. Adm. Code 724.114, or a justification demonstrating the reasons for requesting a waiver of this requirement;
- e) A copy of the general inspection schedule required by 35 Ill. Adm. Code 724.115(b)-; ~~;-~~. Include where applicable, as part of the inspection schedule, specific requirements in 35 Ill. Adm. Code 724.274, 724.293(i), 724.295,- 724,294,- 724.326, 724.354, 724.373, 724.403 and 724.702;
- f) A justification of any request for a waiver of the preparedness and prevention requirements of 35 Ill. Adm. Code 724.Subpart C;
- g) A copy of the contingency plan required by 35 Ill. Adm. Code 724.Subpart D;

BOARD NOTE: Include, where applicable, as part of the contingency plan, specific requirements in 35 Ill. Adm. Code 724.327 and 724.355. 35 Ill. Adm. Code 724.355 has not yet been adopted.

- h) A description of procedures, structures or equipment used at the

facility to:

- 1) Prevent hazards in unloading operations (for example, ramps, special forklifts);
 - 2) Prevent runoff from hazardous waste handling areas to other areas of the facility or environment, or to prevent flooding (for example, berms, dikes, trenches
 - 3) Prevent contamination of water supplies;
 - 4) Mitigate effects of equipment failure and power outages; and
 - 5) Prevent undue exposure of personnel to hazardous waste (for example, protective clothing);
- i) A description of precautions to prevent accidental ignition or reaction of ignitable, reactive or incompatible wastes as required to demonstrate compliance with 35 Ill. Adm. Code 724.117 including documentation demonstrating compliance with 35 Ill. Adm. Code 724.117(c);
 - j) Traffic pattern, estimated volume (number, types of vehicles) and control (for example, show turns across traffic lanes and stacking lanes (if appropriate); describe access road surfacing and load bearing capacity; show traffic control signals);
 - k) Facility location information as required by Section 703.184;
 - l) An outline of both the introductory and continuing training programs by owners or operators to prepare persons to operate or maintain the HWM facility in a safe manner as required to demonstrate compliance with 35 Ill. Adm. Code 724.116. A brief description of how training will be designed to meet actual job tasks in accordance with requirements in 35 Ill. Adm. Code 724.116(a)(3);
 - m) A copy of the closure plan and, where applicable, the post-closure plan required by 35 Ill. Adm. Code 724.212, ~~and~~ -724.218 and 724.297. Include where applicable, as part of the plans, specific requirements in 35 Ill. Adm. Code 724.278, 724.297, 724.328, 724.358, 724.380, 724.410, 724.451, 724.701 and 724.703;
 - n) For hazardous waste disposal units that have been closed, documentation that notices required under 35 Ill. Adm Code 724.219 have been filed;
 - o) The most recent closure cost estimate for the facility prepared in accordance with 35 Ill. Adm. Code 724.242 and a copy of the documentation required to demonstrate financial assurance under 35 Ill. Adm. Code 724.243. For a new facility, a copy of the required documentation may be submitted 60 days prior to the initial receipt of hazardous wastes, if it is later than the submission of the Part B;

- p) Where applicable, the most recent post-closure cost estimate for the facility prepared in accordance with 35 Ill. Adm. Code 724.244 plus a copy of the documentation required to demonstrate financial assurance under 35 Ill. Adm. Code 724.245; For a new facility, a copy of the required documentation may be submitted 60 days prior to the initial receipt of hazardous wastes, if it is later than the submission of the Part B;
- q) Where applicable, a copy of the insurance policy or other documentation which comprises compliance with the requirements of 35 Ill. Adm. Code 724.247. For a new facility, documentation showing the amount of insurance meeting the specification of 35 Ill. Adm. Code 724.247(a) and, if applicable, 35 Ill. Adm. Code 724.247(b), that the owner or operator plans to have in effect before initial receipt of hazardous waste for treatment, storage or disposal. A request for an alternative level of required coverage, for a new or existing facility, may be submitted as specified in 35 Ill. Adm. Code 724.247(c);
- s) A topographic map showing a distance of 1000 feet around the facility at a scale of 2.5 centimeters (1 inch) equal to not more than 61.0 meters (200 feet). Contours must be shown on the map. The contour interval must be sufficient to clearly show the pattern of surface water flow in the vicinity of and from each operational unit of the facility. For example, contours with an interval of 1.5 meters (5 feet), if relief is greater than 6.1 meters (20 feet), or an interval of 0.6 meters (2 feet), if relief is less than 6.1 meters (20 feet). Owners and operators of HWM facilities located in mountainous areas shall use larger contour intervals to adequately show topographic profiles of facilities. The map must clearly show the following:
 - 1) Map scale and date;
 - 2) 100-year floodplain area;
 - 3) Surface waters including intermittent streams;
 - 4) Surrounding land uses (residential, commercial, agricultural, recreational);
 - 5) A wind rose (i.e., prevailing windspeed and direction);
 - 6) Orientation of the map (north arrow);
 - 7) Legal boundaries of the HWM facility site;
 - 8) Access control (fences, gates);
 - 9) Injection and withdrawal wells both on-site and off-site;
 - 10) Buildings; treatment, storage or disposal operations; or other structures (recreation areas, runoff control systems, access and internal roads, storm, sanitary and process sewage systems,

loading and unloading areas, fire control facilities, etc.);

- 11) Barriers for drainage or flood control;
- 12) Location of operational units within the HWM facility site, where hazardous waste is (or will be) treated, stored or disposed (include equipment cleanup areas);

BOARD NOTE: For large HWM facilities, the Agency shall allow the use of other scales on a case by case basis.

- t) Applicants shall submit such information as the Agency determines is necessary for it to determine whether to issue a permit and what conditions to impose in any permit issued.
- u) For land disposal facilities, if a case-by-case extension has been approved under 35 Ill. Adm. Code 728.105, or if a petition has been approved under 35 Ill. Adm. Code 728.106, a copy of the notice of approval of the extension or of approval of the petition is required.

BOARD NOTE: Derived from 40 CFR 270.14(b) (1988), as amended at 54 Fed. Reg. 617, January 9, 1989.

Source: Amended at 14 Ill. Reg. effective

SUBPART E: SHORT TERM AND PHASED PERMITS

Section 703.225 Trial Burns for Existing Incinerators

For the purpose-s- of determining feasibility of compliance with the performance standards of 35 Ill. Adm. Code 724.443 and of determining adequate operating conditions under 35 Ill. Adm. Code 724.445, the applicant for a permit ~~to~~ for an existing hazardous waste incinerator ~~may~~ shall prepare and submit a trial burn plan and perform a trial burn in accordance with Sections 703.205(b) and 703.223(b) through (i), or, instead, submit other information as specified in Section 703.205(c). Applicants submitting information under Section 703.205(a) are exempt from compliance with 35 Ill. Adm. Code 724.443 and 724.445 and, therefore, are exempt from the requirement to conduct a trial burn. Applicants who submit trial burn plans and receive approval before submission of a permit application ~~must~~ shall complete the trial burn and submit the results, specified in Section 703.223(f), with Part B of the permit application. If completion of this process conflicts with the date set for submission of the Part B application, the applicant ~~must~~ shall contact the Agency to establish a later date for submission of the Part B application or the trial burn results. ~~If the applicant submits a trial burn plan with Part B of the permit application, the trial burn must be conducted and the results submitted within the time period specified by the Agency.~~ Trial burn results must be submitted prior to issuance of the permit. When the applicant submits a trial burn plan with Part B of the permit application, the Agency shall specify a time period prior to permit issuance in which the trial burn must be conducted and the results submitted.

~~-(Board Note: See 40 CFR 122.27(b)(4).)-~~ BOARD NOTE: Derived from 40 CFR 270.62(d) (1988), as amended at 54 Fed. Reg. 4288, January 30, 1989.

Source: Amended at 14 Ill. Reg. effective

SUBPART F: PERMIT CONDITIONS OR DENIAL

Section 703.240 Permit Denial

The Agency may, pursuant to the procedures of 35 Ill. Adm. Code 705, deny the permit application either in its entirety or as to the active life of a HWM facility or unit only.

BOARD NOTE: Derived from 40 CFR 270.29, as adopted at 54 Fed. Reg. 9607, March 7, 1989.

Source: Added at 14 Ill. Reg. effective

Section 703.Appendix A Classification of Permit Modifications

Class Modifications

A. General Permit Provisions

- 1 1. Administrative and informational changes.
- 1 2. Correction of typographical errors.
- 1 3. Equipment replacement or upgrading with functionally equivalent components (e.g., pipes, valves, pumps, conveyors, controls).
- 4. Changes in the frequency of or procedures for monitoring, reporting, sampling or maintenance activities by the permittee:
 - 1 a. To provide for more frequent monitoring, reporting or maintenance.
 - 2 b. Other changes.
- 5. Schedule of compliance:
 - 1* a. Changes in interim compliance dates, with prior approval of the Agency.

BOARD NOTE: "*" indicates that prior Agency approval is required.

- 3 b. Extension of final compliance date.
- 1* 6. Changes in expiration date of permit to allow earlier permit termination, with prior approval of the Agency.
- 1* 7. Changes in ownership or operational control of a facility, provided the procedures of Section 703.260(b) are followed.

B. General Facility Standards

1. Changes to waste sampling or analysis methods:
 - 1 a. To conform with Agency guidance or Board regulations.
 - 2 b. Other changes.
2. Changes to analytical quality assurance/control plan:
 - 1 a. To conform with agency guidance or regulations.
 - 2 b. Other changes.
- 1 3. Changes in procedures for maintaining the operating record.
- 2 4. Changes in frequency or content of inspection schedules.
5. Changes in the training plan:
 - 2 a. That affect the type or decrease the amount of training given to employees.
 - 1 b. Other changes.
6. Contingency plan:
 - 2 a. Changes in emergency procedures (i.e., spill or release response procedures).
 - 1 b. Replacement with functionally equivalent equipment, upgrade or relocate emergency equipment listed.
 - 2 c. Removal of equipment from emergency equipment list.
 - 1 d. Changes in name, address or phone number of coordinators or other persons or agencies identified in the plan.

Note: When a permit modification (such as introduction of a new unit) requires a change in facility plans or other general facility standards, that change must be reviewed under the same procedures as the permit modification.

C. Groundwater Protection

1. Changes to wells:
 - 2 a. Changes in the number, location, depth or design of upgradient or downgradient wells of permitted groundwater monitoring system.
 - 1 b. Replacement of an existing well that has been damaged or rendered inoperable, without change to location, design or depth of the well.

- 1* 2. Changes in groundwater sampling or analysis procedures or monitoring schedule, with prior approval of the Agency.
- 1* 3. Changes in statistical procedure for determining whether a statistically significant change in groundwater quality between upgradient and downgradient wells has occurred, with prior approval of the Agency.
- 2* 4. Changes in point of compliance.
- 5. Changes in indicator parameters, hazardous constituents or concentration limits (including ACLs (Alternate Concentration Limits)):
 - 3 a. As specified in the groundwater protection standard.
 - 2 b. As specified in the detection monitoring program.
- 2 6. Changes to a detection monitoring program as required by 35 Ill. Adm. Code 724.198(j), unless otherwise specified in this Appendix.
- 7. Compliance monitoring program:
 - 3 a. Addition of compliance monitoring program as required by 35 Ill. Adm. Code 724.198(h)(4) and 724.199.
 - 2 b. Changes to a compliance monitoring program as required by 35 Ill. Adm. Code 724.199(k), unless otherwise specified in this Appendix.
- 8. Corrective action program:
 - 3 a. Addition of a corrective action program as required by 35 Ill. Adm. Code 724.199(i)(2) and 724.200.
 - 2 b. Changes to a corrective action program as required by 35 Ill. Adm. Code 724.200(h), unless otherwise specified in this Appendix.

D. Closure

- 1. Changes to the closure plan:
 - 1* a. Changes in estimate of maximum extent of operations or maximum inventory of waste on-site at any time during the active life of the facility, with prior approval of the Agency.
 - 1* b. Changes in the closure schedule for any unit, changes in the final closure schedule for the facility or extension of the closure period, with prior approval of the Agency.
 - 1* c. Changes in the expected year of final closure, where other

permit conditions are not changed, with prior approval of the Agency.

- 1* d. Changes in procedures for decontamination of facility equipment or structures, with prior approval of the Agency.
- 2 e. Changes in approved closure plan resulting from unexpected events occurring during partial or final closure, unless otherwise specified in this Appendix.
- 3 2. Creation of a new landfill unit as part of closure.
- 3 3. Addition of the following new units to be used temporarily for closure activities:
 - 3 a. Surface impoundments.
 - 3 b. Incinerators.
 - 3 c. Waste piles that do not comply with 35 Ill. Adm. Code 724.350(c).
 - 2 d. Waste piles that comply with 35 Ill. Adm. Code 724.350(c).
 - 2 e. Tanks or containers (other than specified below).
 - 1* f. Tanks used for neutralization, dewatering, phase separation or component separation, with prior approval of the Agency.

E. Post-Closure

- 1 1. Changes in name, address or phone number of contact in post-closure plan.
- 2 2. Extension of post-closure care period.
- 3 3. Reduction in the post-closure care period.
- 1 4. Changes to the expected year of final closure, where other permit conditions are not changed.
- 2 5. Changes in post-closure plan necessitated by events occurring during the active life of the facility, including partial and final closure.

F. Containers

- 1 1. Modification or addition of container units:
 - 3 a. Resulting in greater than 25% increase in the facility's container storage capacity, except as provided in F(1)(c) and F(4)(a).
 - 2 b. Resulting in up to 25% increase in the facility's container

storage capacity, except as provided in F(1)(c) and F(4)(a).

1 c. Or treatment processes necessary to treat wastes that are restricted from land disposal to meet some or all of the applicable treatment standards or to treat wastes to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8(a)(2)(ii), incorporated by reference in 35 Ill. Adm. Code 728.108, with prior approval of the Agency. This modification may also involve the addition of new waste codes or narrative description of wastes. It is not applicable to dioxin-containing wastes (F020, F021, F022, F023, F026, F027 and F028).

2.

2 a. Modification of a container unit without increasing the capacity of the unit.

1 b. Addition of a roof to a container unit without alteration of the containment system.

3. Storage of different wastes in containers, except as provided in F(4):

3 a. That require additional or different management practices from those authorized in the permit.

2 b. That do not require additional or different management practices from those authorized in the permit.

Note: See Section 703.280(g) for modification procedures to be used for the management of newly listed or identified wastes.

2 4. Storage or treatment of different wastes in containers:

2 a. That require addition of units or change in treatment process or management standards, provided that the wastes are restricted from land disposal and are to be treated to meet some or all of the applicable treatment standards, or are to be treated to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8(a)(2)(ii), incorporated by reference in 35 Ill. Adm. Code 728.108. It is not applicable to dioxin-containing wastes (F020, F021, F022, F023, F026, F027 and F028).

1 b. That do not require the addition of units or a change in the treatment process or management standards, and provided that the units have previously received wastes of the same

type (e.g., incinerator scrubber water). This modification is not applicable to dioxin-containing wastes (F020, F021, F022, F023, F026, F027 and F028).

5. Other changes in container management practices (e.g., aisle space; types of containers; segregation).

G. Tanks

- 3 a. Modification or addition of tank units resulting in greater than 25% increase in the facility's tank capacity, except as provided in paragraphs G(1)(c), ~~and~~ G(1)(d) and G(1)(e).
- 2 b. Modification or addition of tank units resulting in up to 25% increase in the facility's tank capacity, except as provided in paragraphs G(1)(d) and G(1)(e).
- 2 c. Addition of a new tank that will operate for more than 90 days using any of the following physical or chemical treatment technologies: neutralization, dewatering, phase separation or component separation.
- 1* d. After prior approval of the Agency, addition of a new tank that will operate for up to 90 days using any of the following physical or chemical treatment technologies: neutralization, dewatering, phase separation or component separation.
- 1 e. Modification or addition of tank units or treatment processes that are necessary to treat wastes that are restricted from land disposal to meet some or all of the applicable treatment standards or to treat wastes to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8(a)(2)(ii), incorporated by reference in 35 Ill. Adm. Code 728.108, with prior approval of the Agency. This modification may also involve the addition of new waste codes. It is not applicable to dioxin-containing wastes (F020, F021, F022, F023, F026, F027 and F028).
- 2 2. Modification of a tank unit or secondary containment system without increasing the capacity of the unit.
- 1 3. Replacement of a tank with a tank that meets the same design standards and has a capacity within +/- 10% of the replaced tank provided:
- a. The capacity difference is no more than 1500 gallons,
- b. The facility's permitted tank capacity is not increased and

c. The replacement tank meets the same conditions in the permit.

2 4. Modification of a tank management practice.

5. Management of different wastes in tanks:

3 a. That require additional or different management practices, tank design, different fire protection specifications or significantly different tank treatment process from that authorized in the permit, except as provided in paragraph G(5)(c).

2 b. That do not require additional or different management practices, tank design, different fire protection specification or significantly different tank treatment process than authorized in the permit, except as provided in paragraph G(5)(d).

Note: See Section 703.280(g) for modification procedures to be used for the management of newly listed or identified wastes.

1 c. That require addition of units or change in treatment processes or management standards, provided that the wastes are restricted from land disposal and are to be treated to meet some or all of the applicable treatment standards, or that are to be treated to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8(a)(2)(ii), incorporated by reference in 35 Ill. Adm. Code 728.108. The modification is not applicable to dioxin-containing wastes (F020, F021, F022, F023, F026, F027 and F028).

1 d. That do not require the addition of units or a change in the treatment process or management standards, and provided that the units have previously received wastes of the same type (e.g., incinerator scrubber water). This modification is not applicable to dioxin-containing wastes (F020, F021, F022, F023, F026, F027 and F028).

H. Surface Impoundments

3 1. Modification or addition of surface impoundment units that result in increasing the facility's surface impoundment storage or treatment capacity.

3 2. Replacement of a surface impoundment unit.

2 3. Modification of a surface impoundment unit without increasing the facility's surface impoundment storage or treatment capacity and without modifying the unit's liner, leak detection system or

leachate collection system.

- 2 4. Modification of a surface impoundment management practice.
- 5. Treatment, storage or disposal of different wastes in surface impoundments:

- 3 a. That require additional or different management practices or different design of the liner or leak detection system than authorized in the permit.
- 2 b. That do not require additional or different management practices or different design of the liner or leak detection system than authorized in the permit.

Note: See Section 703.280(g) for modification procedures to be used for the management of newly listed or identified wastes.

- 1 c. That are wastes restricted from land disposal that meet the applicable treatment standards or that are treated to satisfy the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8(a)(2)(ii), incorporated by reference in 35 Ill. Adm. Code 728.108, and provided that the unit meets the minimum technological requirements stated in 40 CFR 268.5(h)(2), incorporated by reference in 35 Ill. Adm. Code 728.105. This modification is not applicable to dioxin-containing wastes (F020, F021, F022, F023, F026, F027 and F028).

- 1 d. That are residues from wastewater treatment or incineration, provided the disposal occurs in a unit that meets the minimum technological requirements stated in 40 CFR 268.5(h)(2), incorporated by reference in 35 Ill. Adm. Code 728.105, and provided further that the surface impoundment has previously received wastes of the same type (for example, incinerator scrubber water). This modification is not applicable to dioxin-containing wastes (F020, F021, F022, F023, F026, F027 and F028).

I. Enclosed Waste Piles. For all waste piles, except those complying with 35 Ill. Adm. Code 724.350(c), modifications are treated the same as for a landfill. The following modifications are applicable only to waste piles complying with 35 Ill. Adm. Code 724.350(c).

- 1. Modification or addition of waste pile units:
 - 3 a. Resulting in greater than 25% increase in the facility's waste pile storage or treatment capacity.
 - 2 b. Resulting in up to 25% increase in the facility's waste pile storage or treatment capacity.

- 2 2. Modification of waste pile unit without increasing the capacity of the unit.
- 1 3. Replacement of a waste pile unit with another waste pile unit of the same design and capacity and meeting all waste pile conditions in the permit.
- 2 4. Modification of a waste pile management practice.
- 5. Storage or treatment of different wastes in waste piles:
 - 3 a. That require additional or different management practices or different design of the unit.
 - 2 b. That do not require additional or different management practices or different design of the unit.

Note: See Section 703.280(g) for modification procedures to be used for the management of newly listed or identified wastes.

J. Landfills and Unenclosed Waste Piles

- 3 1. Modification or addition of landfill units that result in increasing the facility's disposal capacity.
- 3 2. Replacement of a landfill.
- 3 3. Addition or modification of a liner, leachate collection system, leachate detection system, run-off control or final cover system.
- 2 4. Modification of a landfill unit without changing a liner, leachate collection system, leachate detection system, run-off control or final cover system.
- 2 5. Modification of a landfill management practice.
- 6. Landfill different wastes:
 - 3 a. That require additional or different management practices, different design of the liner, leachate collection system or leachate detection system.
 - 2 b. That do not require additional or different management practices, different design of the liner, leachate collection system or leachate detection system.

Note: See Section 703.280(g) for modification procedures to be used for the management of newly listed or identified wastes.

- 1 c. That are wastes restricted from land disposal that meet the applicable treatment standards or that are treated to

satisfy the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8(a)(2)(ii), incorporated by reference in 35 Ill. Adm. Code 728.108, and provided that the landfill unit meets the minimum technological requirements stated in 40 CFR 268.5(h)(2), incorporated by reference in 35 Ill. Adm. Code 728.105. This modification is not applicable to dioxin-containing wastes (F020, F021, F022, F023, F026, F027 and F028).

- 1 d. That are residues from wastewater treatment or incineration, provided the disposal occurs in a landfill unit that meets the minimum technological requirements stated in 40 CFR 268.5(h)(2), incorporated by reference in 35 Ill. Adm. Code 728.105, and provided further that the landfill has previously received wastes of the same type (for example, incinerator ash). This modification is not applicable to dioxin-containing wastes (F020, F021, F022, F023, F026, F027 and F028).

K. Land Treatment

- 3 1. Lateral expansion of or other modification of a land treatment unit to increase area extent.
- 2 2. Modification of run-on control system.
- 3 3. Modify run-off control system.
- 2 4. Other modification of land treatment unit component specifications or standards required in permit.
5. Management of different wastes in land treatment units:
- 3 a. That require a change in permit operating conditions or unit design specifications.
- 2 b. That do not require a change in permit operating conditions or unit design specifications.
- Note: See Section 703.280(g) for modification procedures to be used for the management of newly listed or identified wastes.
6. Modification of a land treatment unit management practice to:
- 3 a. Increase rate or change method of waste application.
- 1 b. Decrease rate of waste application.
- 2 7. Modification of a land treatment unit management practice to change measures of pH or moisture content or to enhance microbial or chemical reactions.

- 3 8. Modification of a land treatment unit management practice to grow food chain crops, to add to or replace existing permitted crops with different food chain crops or to modify operating plans for distribution of animal feeds resulting from such crops.
- 3 9. Modification of operating practice due to detection of releases from the land treatment unit pursuant to 35 Ill. Adm. Code 724.378(g)(2).
- 3 10. Changes in the unsaturated zone monitoring system resulting in a change to the location, depth, number of sampling points or replace unsaturated zone monitoring devices or components of devices with devices or components that have specifications different from permit requirements.
- 2 11. Changes in the unsaturated zone monitoring system that do not result in a change to the location, depth, number of sampling points, or that replace unsaturated zone monitoring devices or components of devices with devices or components having specifications different from permit requirements.
- 2 12. Changes in background values for hazardous constituents in soil and soil-pore liquid.
- 2 13. Changes in sampling, analysis or statistical procedure.
- 2 14. Changes in land treatment demonstration program prior to or during the demonstration.
- 1* 15. Changes in any condition specified in the permit for a land treatment unit to reflect results of the land treatment demonstration, provided performance standards are met, and the Agency's prior approval has been received.
- 1* 16. Changes to allow a second land treatment demonstration to be conducted when the results of the first demonstration have not shown the conditions under which the wastes can be treated completely, provided the conditions for the second demonstration are substantially the same as the conditions for the first demonstration and have received the prior approval of the Agency.
- 3 17. Changes to allow a second land treatment demonstration to be conducted when the results of the first demonstration have not shown the conditions under which the wastes can be treated completely, where the conditions for the second demonstration are not substantially the same as the conditions for the first demonstration.
- 2 18. Changes in vegetative cover requirements for closure.

L. Incinerators

- 3 1. Changes to increase by more than 25% any of the following limits authorized in the permit: A thermal feed rate limit, a waste feed rate limit or an organic chlorine feed rate limit. The Agency shall require a new trial burn to substantiate compliance with the regulatory performance standards unless this demonstration can be made through other means.
- 2 2. Changes to increase by up to 25% any of the following limits authorized in the permit: A thermal feed rate limit, a waste feed limit or an organic chlorine feed rate limit. The Agency shall require a new trial burn to substantiate compliance with the regulatory performance standards unless this demonstration can be made through other means.
- 3 3. Modification of an incinerator unit by changing the internal size or geometry of the primary or secondary combustion units, by adding a primary or secondary combustion unit, by substantially changing the design of any component used to remove HCl or particulates from the combustion gases or by changing other features of the incinerator that could affect its capability to meet the regulatory performance standards. The Agency shall require a new trial burn to substantiate compliance with the regulatory performance standards, unless this demonstration can be made through other means.
- 2 4. Modification of an incinerator unit in a manner that will not likely affect the capability of the unit to meet the regulatory performance standards but which will change the operating conditions or monitoring requirements specified in the permit. The Agency may require a new trial burn to demonstrate compliance with the regulatory performance standards.
5. Operating requirements:
 - 3 a. Modification of the limits specified in the permit for minimum combustion gas temperature, minimum combustion gas residence time or oxygen concentration in the secondary combustion chamber. The Agency shall require a new trial burn to substantiate compliance with the regulatory performance standards unless this demonstration can be made through other means.
 - 3 b. Modification of any stack gas emission limits specified in the permit, or modification of any conditions in the permit concerning emergency shutdown or automatic waste feed cutoff procedures or controls.
 - 2 c. Modification of any other operating condition or any inspection or recordkeeping requirement specified in the permit.
6. Incineration of different wastes:
 - 3 a. If the waste contains a POHC that is more difficult to

incinerate than authorized by the permit or if incineration of the waste requires compliance with different regulatory performance standards than specified in the permit, the Agency shall require a new trial burn to substantiate compliance with the regulatory performance standards, unless this demonstration can be made through other means.

- b. If the waste does not contain a POHC that is more difficult to incinerate than authorized by the permit and if incineration of the waste does not require compliance with different regulatory performance standards than specified in the permit.

BOARD NOTE: See Section 703.280(g) for modification procedures to be used for the management of newly listed or identified wastes.

7. Shakedown and trial burn:

- 2 a. Modification of the trial burn plan or any of the permit conditions applicable during the shakedown period for determining operational readiness after construction, the trial burn period or the period immediately following the trial burn.
- 1* b. Authorization of up to an additional 720 hours of waste incineration during the shakedown period for determining operational readiness after construction, with the prior approval of the Agency.
- 1* c. Changes in the operating requirements set in the permit for conducting a trial burn, provided the change is minor and has received the prior approval of the Agency.
- 1* d. Changes in the ranges of the operating requirements set in the permit to reflect the results of the trial burn, provided the change is minor and has received the prior approval of the Agency.
- 1 8. Substitution of an alternate type of fuel that is not specified in the permit.

BOARD NOTE: Derived from 40 CFR 270.42, Appendix I, as adopted at 53 Fed. Reg. 37934, September 28, 1988.

Source: Amended at 14 Ill. Reg. effective

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER 1: POLLUTION CONTROL BOARD
SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 720
HAZARDOUS WASTE MANAGEMENT SYSTEM: GENERAL

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720.101 Purpose, Scope and Applicability
720.102 Availability of Information; Confidentiality of Information
720.103 Use of Number and Gender

SUBPART B: DEFINITIONS

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720.110 Definitions
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SUBPART C: RULEMAKING PETITIONS AND OTHER PROCEDURES

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720.120 Rulemaking
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Activities

Appendix A Overview of 40 CFR, Subtitle C Regulations

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1988 Supp., ch. 111 1/2, pars. 1022.4 and 1027).

SOURCE: Adopted in R81-22, 43 PCB 427, at 5 Ill. Reg. 9781, effective as noted in 35 Ill. Adm. Code 700.106; amended and codified in R81-22, 45 PCB 317, at 6 Ill. Reg. 4828, effective as noted in 35 Ill. Adm. Code 700.106; amended in R82-19 at 7 Ill. Reg. 14015, effective Oct. 12, 1983; amended in R84-9, 53 PCB 131 at 9 Ill. Reg. 11819, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 968, effective January 2, 1986; amended in R86-1 at 10 Ill. Reg. 13998, effective August 12, 1986; amended in R86-19 at 10 Ill. Reg. 20630, effective December 2, 1986; amended in R86-28 at 11 Ill. Reg. 6017, effective March 24, 1987; amended in R86-46 at 11 Ill. Reg. 13435, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19280, effective November 12, 1987; amended in R87-26 at 12 Ill. Reg. 2450, effective January 15, 1988; amended in R87-39 at 12 Ill. Reg. 12999, effective July 29, 1988; amended in R88-16 at 13 Ill. Reg. 362, effective December 27, 1988; amended in R89-1 at 13 Ill. Reg. , effective November 13, 1989; amended in R89-9 at 14 Ill. Reg. , effective

SUBPART B: DEFINITIONS

Section 720.111 References

a) The following publications are incorporated by reference:

ANSI. Available from the American National Standards Institute, 1430 Broadway, New York, New York 10018, (212) 354-3300:

ANSI B31.3 and B31.4. See ASME/ANSI B31.3 and B31.4

API. Available from the American Petroleum Institute, 1220 L Street, N.W., Washington, D.C. 20005, (202) 682-8000:

"Guide for Inspection of Refinery Equipment, Chapter XIII, Atmospheric and Low Pressure Storage Tanks," 4th Edition, 1981, reaffirmed December, 19 .

"Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems," API Recommended Practice 1632, Second Edition, December, 1987.

"Installation of Underground Petroleum Storage Systems," API Recommended Practice 1615, Fourth Edition, November, 1987.

ASME. Available from the American Society of Mechanical Engineers, 345 East 47th Street, New York, NY 10017, (212) 705-7722:

"Chemical Plant and Petroleum Refinery Piping", ASME/ANSI B31.3 - 1987, as supplemented by B31.3a - 1988 and B31.3b - 1988. Also available from ANSI.

"Liquid Transportation Systems for Hydrocarbons, Liquid Petroleum Gas, Anhydrous Ammonia, and Alcohols", ASME/ANSI B31.4 - 1986, as supplemented by B31.4a - 1987. Also available from ANSI.

ASTM. Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103, (215) 299-5400:

"ASTM Standard Test Methods for Flash Point of Liquids by Setaflash Closed Tester," ASTM Standard D-3828-87.

"ASTM Standard Test Methods for Flash Point Pensky-Martens Closed Tester," ASTM Standard D-93-79 or D-93-80.

GPO. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20401, (202) 783-3238:

Standard Industrial Classification Manual (1972), and 1977 Supplement, republished in 1983

NACE. Available from the National Association of Corrosion Engineers, 1400 South Creek Dr., Houston, TX 77084, (713) 492-0535:

"Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems", NACE Recommended Practice RP0285-85, approved March, 1985.

NFPA. Available from the National Fire Protection Association, Batterymarch Park, Boston, MA 02269, (617) 770-3000 or (800) 344-3555:

"Flammable and Combustible Liquids Code" NFPA 30, issued July 17, 1987. Also available from ANSI.

NTIS. Available from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, (703) 487-4600:

"Generic Quality Assurance Project Plan for Land Disposal Restrictions Program", EPA/530-SW-87-011, March 15, 1987. (Document number PB 88-170766.

"Methods for Chemical Analysis of Water and Wastes", Third Edition, March, 1983. (Document number PB 84-128677)

"Procedures Manual for Ground Water Monitoring at Solid Waste Disposal Facilities", EPA-530/SW-611, 1977. (Document number PB 84-174820)

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication number SW-846 (Second Edition, 1982 as amended by Update I (April, 1984) and Update II (April, 1985)) (Document number PB 87-120291)

STI. Available from the Steel Tank Institute, 728 Anthony Trail, Northbrook, IL 60062, (312) 498-1980:

"Standard for Dual Wall Underground Steel Storage Tanks" (1986).

b) Code of Federal Regulations. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20401, (202) 783-3238:

10 CFR 20, Appendix B ~~-(1988)-~~(1989)

40 CFR 136 ~~-(1988)-~~(1989)

40 CFR 142 ~~-(1988)-~~(1989)

40 CFR 220 ~~-(1988)-~~(1989)

40 CFR 260.20 ~~-(1988)-~~(1989)

40 CFR 264 ~~-(1988)-~~(1989)

40 CFR 302.4, 302.5 and 302.6 ~~-(1988)-~~(1989)

40 CFR 761 ~~-(1988)-~~(1989)

c) Federal Statutes

Section 3004 of the Resource Conservation and Recovery Act (42 U.S.C. 6901 et seq.), as amended through December 31, 1987.

d) This Section incorporates no later editions or amendments.

Source: Amended at 14 Ill. Reg. , effective

SUBPART C: RULEMAKING PETITIONS AND OTHER PROCEDURES

Section 720.122 Waste Delisting

- a) General delistings or delisting of specific wastes from specific sources which have been adopted by USEPA may be proposed as state regulations which are identical in substance pursuant to Section 720.120(a).
- b) Delistings which have not been adopted by USEPA may be proposed to the Board pursuant to Section 720.120(b); however, this does not infer that the Board has authority to adopt such delistings. The Board will determine whether it has authority to delist such wastes on a case-by-case basis.
- c) The Agency may determine in a permit or a letter directed to a generator that, based on 35 Ill. Adm. Code 721, a waste from a particular source is not subject to these regulations. Such a finding is evidence against the Agency in any subsequent proceedings but shall not be conclusive with reference to other persons or the Board.
- d) The Board incorporates by reference 40 CFR 260.22 (1988), as amended at 54 Fed. Reg. 27116, June 27, 1989. This Section incorporates no future amendments or editions. Any petition to delist directed to the Board or request for determination directed to the Agency shall include the information required by 40 CFR 260.22 ~~-(1985)~~ and a showing that the delisting needs to be adopted as a part of the Illinois RCRA program.
- e) Waste delistings will not be approved if the result would make the Illinois program less than substantially equivalent to the federal.
- f) Delistings will apply only within Illinois. Generators ~~-must-~~shall comply with 35 Ill. Adm. Code 722 for waste which is hazardous in any

state to which it is to be transported.

Source: Amended at 14 Ill. Reg. , effective

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 728
LAND DISPOSAL RESTRICTIONS

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AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1988 Supp., ch. 111 1/2, pars. 1022.4 and 1027).

SOURCE: Adopted in R87-5 at 11 Ill. Reg. 19354, effective November 12, 1987; amended in R87-39 at 12 Ill. Reg. 13046, effective July 29, 1988;

amended in R89-1 at 13 Ill. Reg. , effective November 13, 1989; amended in R89-9 at 14 Ill. Reg. effective

SUBPART C: PROHIBITION ON LAND DISPOSAL

Section 728.134 Waste Specific Prohibitions -- Second Third Wastes

a) The following wastes are prohibited from land disposal.

1) The wastes specified in 35 Ill. Adm. Code 721.131 as USEPA hazardous waste numbers:

F010
F024

2) The wastes specified in 35 Ill. Adm. Code 721.132 as USEPA hazardous waste numbers:

K005
K007
K009 (nonwastewaters)
K010
K023
K027
K028
K029 (nonwastewaters)
K036 (wastewaters)
K038
K039
K040
K043
K093
K094
K095 (nonwastewaters)
K096 (nonwastewaters)
K113
K114
K115
K116

3) The wastes specified in 35 Ill. Adm. Code 721.133 as USEPA hazardous waste numbers:

P013
P021
P029
P030
P039
P040
P041
P043
P044
P062
P063

P071
P074
P085
P089
P094
P097
P098
P099
P104
P106
P109
P111
P121
U028
U058
U069
U087
U088
U102
U107
U221
U223
U235

b) The following wastes are prohibited from land disposal, except when they are injected into a UIC well pursuant to 35 Ill. Adm. Code 738.114(f) or 738.115(d) USEPA hazardous waste numbers:

K009 (wastewaters)
K011 (nonwastewaters)
K013 (nonwastewaters)
K014 (nonwastewaters)

c) The following wastes are prohibited from land disposal: The wastes specified in 35 Ill. Adm. Code 721.131 as USEPA hazardous waste numbers:

F006 -- cyanide (nonwastewater)
F008
F009
F011 (wastewaters)
F012 (wastewaters)

1) The following waste is prohibited from land disposal except when it is injected into a UIC well pursuant to 35 Ill. Adm. Code 738.114(f): The waste specified in 35 Ill. Adm. Code 721.131 as USEPA hazardous waste number F007.

2) The following wastes are prohibited from land disposal pursuant to the treatment standards specified in Sections 728.141 or 728.143 applicable to those wastes:

F011 (nonwastewaters)
F012 (nonwastewaters)

- d) Effective June 8, 1991, the following wastes are prohibited from land disposal: The wastes specified in this Section having a treatment standard in Subpart D based on incineration, and which are contaminated soil and debris.
- e) Until June 8, 1991, wastes included in subsections (c) and (d) may be disposed in a landfill or surface impoundment, regardless whether such unit is a new, replacement or lateral expansion unit, only if such unit is in compliance with the technical requirements specified in 40 CFR 268.5(h)(2), incorporated by reference in Section 728.105.
- f) The requirements of subsections (a), (b), (c) and (d) do not apply if:
 - 1) The wastes meet the applicable standards specified in Subpart D; or
 - 2) Persons have been granted an exemption from a prohibition pursuant to a petition under Section 728.106, with respect to those wastes and units covered by the petition.
- g) The requirements of subsections (a), (b) and (c) do not apply if persons have been granted an extension to the effective date of a prohibition pursuant to Section 728.105, with respect to those wastes covered by the extension.
- h) Until May 8, 1990, the second third wastes specified in 40 CFR 268.11 (1989) for which treatment standards under Subpart D are not applicable, including California list wastes subject to the statutory prohibitions of Section 728.139 or codified prohibitions under Section 728.132, are prohibited from disposal in a landfill or surface impoundment unless the wastes are subject to a valid demonstration and certification pursuant to Section 728.108.
- i) To determine whether a hazardous waste exceeds the applicable treatment standards specified in Section 728.141 or 728.143, the initial generator shall test a representative sample of the waste extract, or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents in excess of the applicable Subpart D levels, the waste is prohibited from land disposal and all the requirements of this Part are applicable, except as otherwise specified.

(Source: Added at 14 Ill. Reg. , effective)

SUBPART D: TREATMENT STANDARDS

Section 728.142 Treatment Standards expressed as Specified Technologies

- a) The following wastes must be treated using the identified technology or technologies, or an equivalent method approved under subsection (b).

- 1) Liquid hazardous wastes containing PCBs at concentrations greater than or equal to 50 ppm but less than 500 ppm must be incinerated in accordance with technical requirements at 40 CFR 761.70, incorporated by reference in 35 Ill. Adm. Code 720.111, or burned in high efficiency boilers in accordance with the technical requirements of 40 CFR 761.60. Liquid hazardous wastes containing PCBs at concentrations greater than or equal to 500 ppm must be incinerated in accordance with the technical requirements of 40 CFR 761.70. Thermal treatment in accordance with this Section must be in compliance with applicable regulations in 35 Ill. Adm. Code 724, 725 and 726.
- 2) Nonliquid hazardous wastes containing halogenated organic compounds (HOCs) in total concentrations greater than or equal to 1000 mg/kg and liquid HOC-containing wastes that are prohibited under Section 728.132(e)(1) must be incinerated in accordance with the requirements of 35 Ill. Adm. Code 724.Subpart 0 or 35 Ill. Adm. Code 725.Subpart 0, or in boilers or industrial furnaces, as defined in 35 Ill. Adm. Code 720, burning in accordance with ~~applicable regulatory standards~~ 35 Ill. Adm. Code 726. These treatment standards do not apply where the waste is subject to a Subpart C treatment standard for a specific HOC (such as a hazardous waste chlorinated solvent for which a treatment standard is established under Section 728.141(a)).
- 3) The nonwastewater form of the following hazardous wastes must be incinerated in accordance with the requirements of 35 Ill. Adm. Code 264.Subpart 0, or 35 Ill. Adm. Code 725.Subpart 0, or burned in boilers or industrial furnaces, as defined in 35 Ill. Adm. Code 720, in accordance with 35 Ill. Adm. Code 726:

K027
K039
K113
K114
K115
K116
P040
P041
P043
P044
P062
P085
P109
P111
U058
U087
U221
U223

- 4) The wastewater form of the following hazardous wastes must be treated by carbon adsorption, or incineration, or pretreatment

followed by carbon adsorption:

K027
K039
K113
K114
K115
K116
P040
P041
P043
P044
P062
P085
P109
P111
U058
U087
U221
U223

- b) Any person may submit an application to the Agency demonstrating that an alternative treatment method can achieve a level of performance equivalent to that achievable by methods specified in subsection (a). The applicant shall submit information demonstrating that the applicant's treatment method is in compliance with federal and state requirements, including this Part, 35 Ill. Adm. Code 709, 724, 725, 726 and 729 and Sections 22.6 and 39(h) of the Environmental Protection Act (Ill. Rev. Stat. ~~1985-1987~~, ch. 111 1/2, pars. 1022.6 and 1039(h)), and is protective of human health or the environment. On the basis of such information and any other available information, the Agency shall approve the use of the alternative treatment method if the Agency finds that the alternative treatment method provides a measure of performance equivalent to that achieved by methods specified in subsection (a). Any approval must be stated in writing and may contain such provisions and conditions as the Agency determines to be appropriate. The person to whom such certification is issued shall comply with all limitations contained in such determination.

Source: Amended at 14 Ill. Reg. effective

Section 728.143 Treatment Standards expressed as Waste Concentrations

- a) Table B identifies the restricted wastes and concentrations of their associated hazardous constituents which must not be exceeded by the waste or treatment residual (not an extract of such waste or treatment residual) for the allowable land disposal of such waste or residual. The wastewater and nonwastewater treatment standards in Table B are based on analysis of grab samples except the wastewater treatment standards that are based on analysis of composite samples for wastes, K009, K010, K036, K038, K040, P039, P071, P089, P094, P097 and U235.

- b) When wastes with different treatment standards for a constituent of concern are combined for purposes of treatment, the treatment residue must meet the lowest treatment standard for the constituent of concern.

Source: Amended at 14 Ill. Reg. effective

Table A Constituent Concentrations in Waste Extract (CCWE)

| F001 -- F005 Spent Solvents | Concentration (in mg/L) | |
|---------------------------------------|---------------------------------------|--------------------------------|
| | Wastewaters containing spent solvents | All other spent solvent wastes |
| Acetone | 0.05 | 0.59 |
| n-Butyl alcohol | 5.0 | 5.0 |
| Carbon disulfide | 1.05 | 4.81 |
| Carbon tetrachloride | 0.05 | 0.96 |
| Chlorobenzene | 0.15 | 0.05 |
| Cresols (and cresylic acid) | 2.82 | 0.75 |
| Cyclohexanone | 0.125 | 0.75 |
| 1,2-Dichlorobenzene | 0.65 | 0.125 |
| Ethyl acetate | 0.05 | 0.75 |
| Ethylbenzene | 0.05 | 0.053 |
| Ethyl ether | 0.05 | 0.75 |
| Isobutanol | 5.0 | 5.0 |
| Methanol | 0.25 | 0.75 |
| Methylene chloride | 0.20 | 0.96 |
| Methyl ethyl ketone | 0.05 | 0.75 |
| Methyl isobutyl ketone | 0.05 | 0.33 |
| Nitrobenzene | 0.66 | 0.125 |
| Pyridine | 1.12 | 0.33 |
| Tetrachloroethylene | 0.079 | 0.05 |
| Toluene | 1.12 | 0.33 |
| 1,1,1-Trichloroethane | 1.05 | 0.41 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.05 | 0.96 |
| Trichloroethylene | 0.062 | 0.091 |
| Trichlorofluoromethane | 0.05 | 0.96 |
| Xylene | 0.05 | 0.15 |

| F006 nonwastewaters (see also Table B) | Concentration (in mg/L) |
|--|-------------------------|
| Cadmium | 0.066 |
| Chromium (Total) | 5.2 |
| Lead | 0.51 |
| Nickel | 0.32 |
| Silver | 0.072 |
| -Cyanides (Total) | Reserved- |

| <u>F007, F008 and F009 Nonwastewaters</u> <u>See also Table B</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|--|--|
| <u>Cadmium</u> | <u>0.066</u> |
| <u>Chromium (total)</u> | <u>5.2</u> |
| <u>Lead</u> | <u>0.51</u> |
| <u>Nickel</u> | <u>0.32</u> |
| <u>Silver</u> | <u>0.072</u> |

| <u>F011 and F012 Nonwastewaters</u> <u>See also Table B</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|--|--|
| <u>Cadmium</u> | <u>0.066</u> |
| <u>Chromium (total)</u> | <u>5.2</u> |
| <u>Lead</u> | <u>0.51</u> |
| <u>Nickel</u> | <u>0.32</u> |
| <u>Silver</u> | <u>0.072</u> |

| <u>F024 Nonwastewaters</u> <u>See also Table B</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|---|--|
| <u>Chromium (total)</u> | <u>Reserved</u> |
| <u>Nickel</u> | <u>Reserved</u> |

| <u>F028 Nonwastewaters</u> <u>See also Table B</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|---|--|
| <u>Chromium (total)</u> | <u>Reserved</u> |
| <u>Nickel</u> | <u>Reserved</u> |

| <u>F020 -- F023 and F026 -- F028</u> <u>Dioxin Containing Wastes</u> | <u>Concentration</u> <u>(Maximum)</u> |
|---|--|
| <u>HxCDD -- All Hexachlorodibenzo-p-dioxins</u> | <u>1 ppb</u> |
| <u>HxCDF -- All Hexachlorodibenzofurans</u> | <u>1 ppb</u> |
| <u>PeCDD -- All Pentachlorodibenzo-p-dioxins</u> | <u>1 ppb</u> |
| <u>PeCDF -- All Pentachlorodibenzofurans</u> | <u>1 ppb</u> |
| <u>TCDD -- All Tetrachlorodibenzo-p-dioxins</u> | <u>1 ppb</u> |
| <u>TCDF -- All Tetrachlorodibenzofurans</u> | <u>1 ppb</u> |
| <u>2,4,5-Trichlorophenol</u> | <u>0.05 ppm</u> |
| <u>2,4,6-Trichlorophenol</u> | <u>0.05 ppm</u> |
| <u>2,3,4,6-Tetrachlorophenol</u> | <u>0.10 ppm</u> |
| <u>Pentachlorophenol</u> | <u>0.01 ppm</u> |

| K001 nonwastewaters (see also Table B) | Concentration (in mg/L) |
|--|----------------------------|
| Lead | 0.51 |

| K022 nonwastewaters (see also Table B) | Concentration (in mg/L) |
|--|----------------------------|
| Chromium (Total) | 5.2 |
| Nickel | 0.32 |

| K046 nonwastewaters (Nonreactive Subcategory) | Concentration (in mg/L) |
|---|----------------------------|
| Lead | 0.18 |

| K048, K049, K050, K051 and K052 nonwastewaters (see also Table B) | Concentration (in mg/L) |
|--|----------------------------|
| Arsenic | 0.004 |
| Chromium (Total) | 1.7 |
| Nickel | 0.048 |
| Selenium | 0.025 |

| K061 nonwastewaters (Low Zinc Subcategory-less than 15% total zinc) | Concentration (in mg/L) |
|--|----------------------------|
| Cadmium | 0.14 |
| Chromium (Total) | 5.2 |
| Lead | 0.24 |
| Nickel | 0.32 |

| K061 nonwastewaters (High Zinc Subcategory-15% or greater total zinc) effective until 8/8/90 | Concentration (in mg/L) |
|---|----------------------------|
| Cadmium | 0.14 |
| Chromium (Total) | 5.2 |
| Lead | 0.24 |
| Nickel | 0.32 |

| K062 nonwastewaters | Concentration (in mg/L) |
|---------------------|----------------------------|
| Chromium (Total) | 0.094 |
| Lead | 0.37 |

| <u>K071 nonwastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|----------------------------|--|
| Mercury | 0.025 |

| <u>K086 nonwastewaters (Solvent Washes Subcategory)</u> <u>(see also Table B)</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|--|--|
| Chromium (Total) | 0.094 |
| Lead | 0.37 |

| <u>K087 nonwastewaters (see also Table B)</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|---|--|
| Lead | 0.51 |

| <u>K101 and K102 nonwastewaters (Low Arsenic Subcategory-</u> <u>less than 1% Total Arsenic) (see also Table B)</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|--|--|
| Cadmium | 0.066 |
| Chromium (Total) | 5.2 |
| Lead | 0.51 |
| Nickel | 0.32 |

| <u>K115 Nonwastewaters</u> <u>see also Table B</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|---|--|
| <u>Nickel</u> | <u>0.32</u> |

| <u>P074 Nonwastewaters</u> <u>See also Table B</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|---|--|
| <u>Nickel</u> | <u>0.32</u> |

| <u>P099 Nonwastewaters</u> <u>See also Table B</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|---|--|
| <u>Silver</u> | <u>0.072</u> |

| | |
|---|--|
| <u>P104 Nonwastewaters</u> <u>See also Table B</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|---|--|

| | |
|---------------|--------------|
| <u>Silver</u> | <u>0.072</u> |
|---------------|--------------|

Source: Amended at 14 Ill. Reg. effective

Section 728. Table B Constituent Concentrations in Waste (CCW)

| | |
|--|--|
| <u>F001, F002, F003, F004 and F005 wastewaters</u> <u>(Pharmaceutical Industry)</u> | <u>Concentration</u> <u>(in mg/L)</u> |
| <u>Methylene chloride</u> | <u>0.44</u> |

| | |
|---|---|
| <u>F006 nonwastewaters (see also Table A)</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
| <u>Cyanides (Total)</u> | <u>-Reserved-590.</u> |
| <u>Cyanides (Amenable)</u> | <u>30.</u> |

| | |
|--|---|
| <u>F007, F008 and F009 Nonwastewaters</u> <u>See also Table A</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
| <u>Cyanides (Total)</u> | <u>590.</u> |
| <u>Cyanides (Amenable)</u> | <u>30.</u> |

| | |
|---|--|
| <u>F007, F008 and F009 Wastewaters</u> <u>See also Table A</u> | <u>Concentration</u> <u>(in mg/L)</u> |
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |
| <u>Chromium (Total)</u> | <u>0.32</u> |
| <u>Lead</u> | <u>0.04</u> |
| <u>Nickel</u> | <u>0.44</u> |

| | |
|----------------------------|---|
| <u>F010 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
| <u>Cyanides (Total)</u> | <u>1.5</u> |

| <u>F010 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|----------------------------|--|
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |

| <u>F011 and F012 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|-------------------------------------|---|
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| <u>F011 and F012 Wastewaters</u> <u>See also Table A</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|---|--|
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |
| <u>Chromium (Total)</u> | <u>0.32</u> |
| <u>Lead</u> | <u>0.04</u> |
| <u>Nickel</u> | <u>0.44</u> |

| <u>F024 Nonwastewaters</u> <u>See also Table A</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|---|---|
| <u>2-Chloro-1,3-butadiene</u> | <u>0.28</u> |
| <u>3-Chloropropene</u> | <u>0.28</u> |
| <u>1,1-Dichloroethane</u> | <u>0.014</u> |
| <u>1,2-Dichloroethane</u> | <u>0.014</u> |
| <u>1,2-Dichloropropane</u> | <u>0.014</u> |
| <u>cis-1,3-Dichloropropene</u> | <u>0.014</u> |
| <u>trans-1,3-Dichloropropene</u> | <u>0.014</u> |
| <u>Diethylhexyl phthalate</u> | <u>1.8</u> |
| <u>Hexachloroethane</u> | <u>1.8</u> |
| <u>Hexachlorodibenzofurans</u> | <u>0.001</u> |
| <u>Hexachlorodibenzo-p-dioxins</u> | <u>0.001</u> |
| <u>Pentachlorodibenzofurans</u> | <u>0.001</u> |
| <u>Pentachlorodibenzo-p-dioxins</u> | <u>0.001</u> |
| <u>Tetrachlorodibenzofurans</u> | <u>0.001</u> |

| <u>F024 Wastewaters</u> <u>See also Table A</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|--|--|
| <u>2-Chloro-1,3-butadiene</u> | <u>0.28</u> |
| <u>3-Chloropropene</u> | <u>0.28</u> |
| <u>1,1-Dichloroethane</u> | <u>0.014</u> |

| | |
|-------------------------------------|--------------|
| <u>1,2-Dichloroethane</u> | <u>0.014</u> |
| <u>1,2-Dichloropropane</u> | <u>0.014</u> |
| <u>cis-1,3-Dichloropropene</u> | <u>0.014</u> |
| <u>trans-1,3-Dichloropropene</u> | <u>0.014</u> |
| <u>Diethylhexyl phthalate</u> | <u>0.036</u> |
| <u>Hexachloroethane</u> | <u>0.036</u> |
| <u>Hexachlorodibenzofurans</u> | <u>0.001</u> |
| <u>Hexachlorodibenzo-p-dioxins</u> | <u>0.001</u> |
| <u>Pentachlorodibenzofurans</u> | <u>0.001</u> |
| <u>Pentachlorodibenzo-p-dioxins</u> | <u>0.001</u> |
| <u>Tetrachlorodibenzofurans</u> | <u>0.001</u> |
| <u>Chromium (Total)</u> | <u>0.35</u> |
| <u>Nickel</u> | <u>0.47</u> |

| | |
|---|---|
| <u>K001 nonwastewaters (see also Table A)</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
| <u>Naphthalene</u> | <u>8.0</u> |
| <u>Pentachlorophenol</u> | <u>37.</u> |
| <u>Phenanthrene</u> | <u>8.0</u> |
| <u>Pyrene</u> | <u>7.3</u> |
| <u>Toluene</u> | <u>0.14</u> |
| <u>Xylenes</u> | <u>0.16</u> |

| | |
|--------------------------|--|
| <u>K001 wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
| <u>Naphthalene</u> | <u>0.15</u> |
| <u>Pentachlorophenol</u> | <u>0.88</u> |
| <u>Phenanthrene</u> | <u>0.15</u> |
| <u>Pyrene</u> | <u>0.14</u> |
| <u>Toluene</u> | <u>0.14</u> |
| <u>Xylenes</u> | <u>0.16</u> |
| <u>Lead</u> | <u>0.037</u> |

| | |
|-------------------------------------|---|
| <u>K009 and K010 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
| <u>Chloroform</u> | <u>6.0</u> |

| | |
|----------------------------------|--|
| <u>K009 and K010 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
| <u>Chloroform</u> | <u>0.10</u> |

| <u>K011, K013 and K014 Nonwastewaters</u> | <u>Concentration (in mg/kg)</u> |
|---|-------------------------------------|
| <u>Acetonitrile</u> | <u>1.8</u> |
| <u>Acrylonitrile</u> | <u>1.4</u> |
| <u>Acrylamide</u> | <u>23.</u> |
| <u>Benzene</u> | <u>0.03</u> |
| <u>Cyanides (Total)</u> | <u>57.</u> |

| <u>K015 wastewaters</u> | <u>Concentration (in mg/L)</u> |
|------------------------------------|------------------------------------|
| <u>Anthracene</u> | <u>1.0</u> |
| <u>Benzal chloride</u> | <u>0.28</u> |
| <u>Benzo (b or k) fluoranthene</u> | <u>0.29</u> |
| <u>Phenanthrene</u> | <u>0.27</u> |
| <u>Toluene</u> | <u>0.15</u> |
| <u>Chromium (Total)</u> | <u>0.32</u> |
| <u>Nickel</u> | <u>0.44</u> |

| <u>K016 nonwastewaters</u> | <u>Concentration (in mg/kg)</u> |
|----------------------------------|-------------------------------------|
| <u>Hexachlorobenzene</u> | <u>28.</u> |
| <u>Hexachlorobutadiene</u> | <u>5.6</u> |
| <u>Hexachlorocyclopentadiene</u> | <u>5.6</u> |
| <u>Hexachloroethane</u> | <u>28.</u> |
| <u>Tetrachloroethene</u> | <u>6.0</u> |

| <u>K016 wastewaters</u> | <u>Concentration (in mg/L)</u> |
|----------------------------------|------------------------------------|
| <u>Hexachlorobenzene</u> | <u>0.033</u> |
| <u>Hexachlorobutadiene</u> | <u>0.007</u> |
| <u>Hexachlorocyclopentadiene</u> | <u>0.007</u> |
| <u>Hexachloroethane</u> | <u>0.033</u> |
| <u>Tetrachloroethene</u> | <u>0.007</u> |

| <u>K018 nonwastewaters</u> | <u>Concentration (in mg/kg)</u> |
|------------------------------|-------------------------------------|
| <u>Chloroethane</u> | <u>6.0</u> |
| <u>1,1-Dichloroethane</u> | <u>6.0</u> |
| <u>1,2-Dichloroethane</u> | <u>6.0</u> |
| <u>Hexachlorobenzene</u> | <u>28.</u> |
| <u>Hexachlorobutadiene</u> | <u>5.6</u> |
| <u>Hexachloroethane</u> | <u>28.</u> |
| <u>Pentachloroethane</u> | <u>5.6</u> |
| <u>1,1,1-Trichloroethane</u> | <u>6.0</u> |

| K018 wastewaters | Concentration (in mg/L) |
|-----------------------|----------------------------|
| Chloroethane | 0.007 |
| Chloromethane | 0.007 |
| 1,1-Dichloroethane | 0.007 |
| 1,2-Dichloroethane | 0.007 |
| Hexachlorobenzene | 0.033 |
| Hexachlorobutadiene | 0.007 |
| Pentachloroethane | 0.007 |
| 1,1,1-Trichloroethane | 0.007 |

| K019 nonwastewaters | Concentration (in mg/kg) |
|-------------------------|-----------------------------|
| Bis(2-chloroethyl)ether | 5.6 |
| Chlorobenzene | 6.0 |
| Chloroform | 6.0 |
| 1,2-Dichloroethane | 6.0 |
| Hexachloroethane | 28. |
| Naphthalene | 5.6 |
| Phenanthrene | 5.6 |
| Tetrachloroethene | 6.0 |
| 1,2,4-Trichlorobenzene | 19. |
| 1,1,1-Trichloroethane | 6.0 |

| K019 wastewaters | Concentration (in mg/L) |
|----------------------------|----------------------------|
| Bis(2-chloroethyl)ether | 0.007 |
| Chlorobenzene | 0.006 |
| Chloroform | 0.007 |
| p-Dichlorobenzene | 0.008 |
| 1,2-Dichloroethane | 0.007 |
| Fluorene | 0.007 |
| Hexachloroethane | 0.033 |
| Naphthalene | 0.007 |
| Phenanthrene | 0.007 |
| 1,2,4,5-Tetrachlorobenzene | 0.017 |
| Tetrachloroethene | 0.007 |
| 1,2,4-Trichlorobenzene | 0.023 |
| 1,1,1-Trichloroethane | 0.007 |

| K020 nonwastewaters | Concentration (in mg/kg) |
|---------------------------|-----------------------------|
| 1,2-Dichloroethane | 6.0 |
| 1,1,2,2-Tetrachloroethane | 5.6 |
| Tetrachloroethene | 6.0 |

| <u>K02... wastewaters</u> | <u>Concentration (in mg/L)</u> |
|---------------------------|------------------------------------|
| 1,2-Dichloroethane | 0.007 |
| 1,1,2,2-Tetrachloroethane | 0.007 |
| Tetrachloroethene | 0.007 |

| <u>K022 nonwastewaters (see also Table A)</u> | <u>Concentration (in mg/kg)</u> |
|---|-------------------------------------|
| Acetophenone | 19. |
| Sum of Diphenylamine and Diphenylnitrosamine | 13. |
| Phenol | 12. |
| Toluene | 0.034 |

| <u>K023, K093 and K094 Nonwastewaters</u> | <u>Concentration (in mg/kg)</u> |
|--|-------------------------------------|
| Phthalic anhydride (measured as Phthalic acid) | 28. |

| <u>K023, K093 and K094 Wastewaters</u> | <u>Concentration (in mg/L)</u> |
|--|------------------------------------|
| Phthalic anhydride (measured as Phthalic acid) | 0.54 |

| <u>K024 nonwastewaters</u> | <u>Concentration (in mg/kg)</u> |
|--|-------------------------------------|
| -Phthalic acid- Phthalic anhydride (measured as Phthalic acid) | 28. |

| <u>K024 wastewaters</u> | <u>Concentration (in mg/L)</u> |
|---|------------------------------------|
| -Phthalic acid - Phthalic anhydride (measured as Phthalic acid) | 0.54 |

| <u>K026 Nonwastewaters</u> | <u>Concentration (in mg/kg)</u> |
|----------------------------|-------------------------------------|
| See also Table A | |
| 1,1-Dichloroethane | 6.0 |
| trans-1,2-Dichloroethene | 6.0 |
| Hexachlorobutadiene | 5.6 |

| | |
|----------------------------------|------------|
| <u>Hexachloroethane</u> | <u>28.</u> |
| <u>Pentachloroethane</u> | <u>5.6</u> |
| <u>1,1,1,2-Tetrachloroethane</u> | <u>5.6</u> |
| <u>1,1,2,2-Tetrachloroethane</u> | <u>5.6</u> |
| <u>1,1,1-Trichloroethane</u> | <u>6.0</u> |
| <u>1,1,2-Trichloroethane</u> | <u>6.0</u> |
| <u>Tetrachloroethylene</u> | <u>6.0</u> |

| <u>K028 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|----------------------------------|--|
| <u>1,1-Dichloroethane</u> | <u>0.007</u> |
| <u>trans-1,2-Dichloroethene</u> | <u>0.033</u> |
| <u>Hexachlorobutadiene</u> | <u>0.007</u> |
| <u>Hexachloroethane</u> | <u>0.033</u> |
| <u>Pentachloroethane</u> | <u>0.033</u> |
| <u>1,1,1,2-Tetrachloroethane</u> | <u>0.007</u> |
| <u>1,1,2,2-Tetrachloroethane</u> | <u>0.007</u> |
| <u>Tetrachloroethylene</u> | <u>0.007</u> |
| <u>1,1,1-Trichloroethane</u> | <u>0.007</u> |
| <u>1,1,2-Trichloroethane</u> | <u>0.007</u> |
| <u>Cadmium</u> | <u>6.4</u> |
| <u>Chromium (Total)</u> | <u>0.35</u> |
| <u>Lead</u> | <u>0.037</u> |
| <u>Nickel</u> | <u>0.47</u> |

| <u>K029 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|------------------------------|---|
| <u>Chloroform</u> | <u>6.0</u> |
| <u>1,2-Dichloroethane</u> | <u>6.0</u> |
| <u>1,1-Dichloroethylene</u> | <u>6.0</u> |
| <u>1,1,1-Trichloroethane</u> | <u>6.0</u> |
| <u>Vinyl chloride</u> | <u>6.0</u> |

| <u>K030 nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|-----------------------------------|---|
| <u>Hexachlorobutadiene</u> | <u>5.6</u> |
| <u>Hexachloroethane</u> | <u>28.</u> |
| <u>Hexachloropropene</u> | <u>19.</u> |
| <u>Pentachlorobenzene</u> | <u>28.</u> |
| <u>Pentachloroethane</u> | <u>5.6</u> |
| <u>1,2,4,5-Tetrachlorobenzene</u> | <u>14.</u> |
| <u>Tetrachloroethene</u> | <u>6.0</u> |
| <u>1,2,4-Trichlorobenzene</u> | <u>19.</u> |

| <u>K030 wastewaters</u> | <u>Concentration (in mg/L)</u> |
|----------------------------|------------------------------------|
| o-Dichlorobenzene | 0.008 |
| p-Dichlorobenzene | 0.008 |
| Hexachlorobutadiene | 0.007 |
| Hexachloroethane | 0.033 |
| Pentachloroethane | 0.007 |
| 1,2,4,5-Tetrachlorobenzene | 0.017 |
| Tetrachloroethene | 0.007 |
| 1,2,4-Trichlorobenzene | 0.023 |

| <u>K036 Wastewaters</u> | <u>Concentration (in mg/L)</u> |
|-------------------------|------------------------------------|
| <u>Disulfoton</u> | <u>0.025</u> |

| <u>K037 nonwastewaters</u> | <u>Concentration (in mg/kg)</u> |
|----------------------------|-------------------------------------|
| Disulfoton | 0.1 |
| Toluene | 28. |

| <u>K037 wastewaters</u> | <u>Concentration (in mg/L)</u> |
|-------------------------|------------------------------------|
| Disulfoton | 0.003 |
| Toluene | 0.028 |

| <u>K038 and K040 Nonwastewaters</u> | <u>Concentration (in mg/kg)</u> |
|-------------------------------------|-------------------------------------|
| <u>Phorate</u> | <u>0.1</u> |

| <u>K038 and K040 Wastewaters</u> | <u>Concentration (in mg/L)</u> |
|----------------------------------|------------------------------------|
| <u>Phorate</u> | <u>0.025</u> |

| <u>K043 Nonwastewaters</u> | <u>Concentration (in mg/kg)</u> |
|----------------------------|-------------------------------------|
| <u>2,4-Dichlorophenol</u> | <u>0.38</u> |
| <u>2,6-Dichlorophenol</u> | <u>0.34</u> |

| | |
|-------------------------------------|-------|
| <u>2,4,5-Trichlorophenol</u> | 8.2 |
| <u>2,4,6-Trichlorophenol</u> | 7.6 |
| <u>Tetrachlorophenols (Total)</u> | 0.68 |
| <u>Pentachlorophenol</u> | 1.9 |
| <u>Tetrachloroethene</u> | 1.7 |
| <u>Hexachlorodibenzo-p-dioxins</u> | 0.001 |
| <u>Hexachlorodibenzofurans</u> | 0.001 |
| <u>Pentachlorodibenzo-p-dioxins</u> | 0.001 |
| <u>Pentachlorodibenzofurans</u> | 0.001 |
| <u>Tetrachlorodibenzo-p-dioxins</u> | 0.001 |
| <u>Tetrachlorodibenzofurans</u> | 0.001 |

| | |
|-------------------------|--|
| <u>K043 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|-------------------------------------|-------|
| <u>2,4-Dichlorophenol</u> | 0.049 |
| <u>2,6-Dichlorophenol</u> | 0.013 |
| <u>2,4,5-Trichlorophenol</u> | 0.016 |
| <u>2,4,6-Trichlorophenol</u> | 0.039 |
| <u>Tetrachlorophenols (Total)</u> | 0.018 |
| <u>Pentachlorophenol</u> | 0.22 |
| <u>Tetrachloroethene</u> | 0.006 |
| <u>Hexachlorodibenzo-p-dioxins</u> | 0.001 |
| <u>Hexachlorodibenzofurans</u> | 0.001 |
| <u>Pentachlorodibenzo-p-dioxins</u> | 0.001 |
| <u>Pentachlorodibenzofurans</u> | 0.001 |
| <u>Tetrachlorodibenzo-p-dioxins</u> | 0.001 |
| <u>Tetrachlorodibenzofurans</u> | 0.001 |

| | |
|---|---|
| <u>K048 nonwastewaters (see also Table A)</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|---|---|

| | |
|--|----------|
| Benzene | 9.5 |
| Benzo(a)pyrene | 0.84 |
| <u>-Bis(2-ethylhexyl)-Diethylhexyl phthalate</u> | 37. |
| Chrysene | 2.2 |
| Di-n-butyl phthalate | 4.2 |
| Ethylbenzene | 67. |
| Naphthalene | Reserved |
| Phenanthrene | 7.7 |
| Phenol | 2.7 |
| Pyrene | 2.0 |
| Toluene | 9.5 |
| Xylenes | Reserved |
| Cyanides (Total) | 1.8 |

| K048 wastewaters | Concentration (in mg/L) |
|--|----------------------------|
| Benzene | 0.011 |
| Benzo(a)pyrene | 0.047 |
| -Bis(2-ethylhexyl)-Diethylhexyl phthalate | 0.043 |
| Chrysene | 0.043 |
| Di-n-butyl phthalate | 0.060 |
| Ethylbenzene | 0.011 |
| Fluorene | 0.050 |
| Naphthalene | 0.033 |
| Phenanthrene | 0.039 |
| Phenol | 0.047 |
| Pyrene | 0.045 |
| Toluene | 0.011 |
| Xylenes | 0.011 |
| Chromium (Total) | 0.20 |
| Lead | 0.37 |

| K049 nonwastewaters (see also Table A) | Concentration (in mg/kg) |
|--|-----------------------------|
| Anthracene | 6.2 |
| Benzene | 9.5 |
| Benzo(a)pyrene | 0.84 |
| -Bis(2-ethylhexyl)-Diethylhexyl phthalate | 37. |
| Chrysene | 2.2 |
| Ethylbenzene | 67. |
| Naphthalene | (Reserved) |
| Phenanthrene | 7.7 |
| Phenol | 2.7 |
| Pyrene | 2.0 |
| Toluene | 9.5 |
| Xylenes | Reserved |
| Cyanides (Total) | 1.8 |

| K049 wastewaters | Concentration (in mg/L) |
|--|----------------------------|
| Anthracene | 0.039 |
| Benzene | 0.011 |
| Benzo(a)pyrene | 0.047 |
| -Bis(2-ethylhexyl)-Diethylhexyl phthalate | 0.043 |
| Carbon disulfide | 0.011 |
| Chrysene | 0.043 |
| 2,4-Dimethylphenol | 0.033 |
| Ethylbenzene | 0.011 |
| Naphthalene | 0.033 |
| Phenanthrene | 0.039 |
| Phenol | 0.047 |
| Pyrene | 0.045 |
| Toluene | 0.011 |

| | |
|------------------|-------|
| Xylenes | 0.011 |
| Chromium (Total) | 0.20 |
| Lead | 0.037 |

| K050 nonwastewaters (see also Table A) | Concentration (in mg/kg) |
|--|-----------------------------|
| Benzo(a)pyrene | 0.84 |
| Phenol | 2.7 |
| Cyanides (Total) | 1.8 |

| K050 wastewaters | Concentration (in mg/L) |
|------------------|----------------------------|
| Benzo(a)pyrene | 0.047 |
| Phenol | 0.047 |
| Chromium (Total) | 0.20 |
| Lead | 0.037 |

| K051 nonwastewaters (see also Table A) | Concentration (in mg/kg) |
|--|-----------------------------|
| Anthracene | 6.2 |
| Benzene | 9.5 |
| Benzo(a)anthracene | 1.4 |
| Benzo(a)pyrene | 0.84 |
| <u>-Bis(2-ethylhexyl)-Diethylhexyl</u> phthalate | 37. |
| Chrysene | 2.2 |
| Di-n-butyl phthalate | 4.2 |
| Ethylbenzene | 67. |
| Naphthalene | Reserved |
| Phenanthrene | 7.7 |
| Phenol | 2.7 |
| Pyrene | 2.0 |
| Toluene | 9.5 |
| Xylenes | Reserved |
| Cyanides (Total) | 1.8 |

| K051 wastewaters | Concentration (in mg/L) |
|--|----------------------------|
| Acenaphthene | 0.050 |
| Anthracene | 0.039 |
| Benzene | 0.011 |
| Benzo(a)anthracene | 0.043 |
| Benzo(a)pyrene | 0.047 |
| <u>-Bis(2-ethylhexyl)-Diethylhexyl</u> phthalate | 0.043 |
| Chrysene | 0.043 |
| Di-n-butyl phthalate | 0.060 |
| Ethylbenzene | 0.011 |

| | |
|------------------|-------|
| Fluorene | 0.050 |
| Naphthalene | 0.033 |
| Phenanthrene | 0.039 |
| Phenol | 0.047 |
| Pyrene | 0.045 |
| Toluene | 0.011 |
| Xylenes | 0.011 |
| Chromium (Total) | 0.20 |
| Lead | 0.037 |

| K052 nonwastewaters (see also Table A) | Concentration (in mg/kg) |
|--|-----------------------------|
| Benzene | 9.5 |
| Benzo(a)pyrene | 0.84 |
| o-Cresol | 2.2 |
| p-Cresol | 0.90 |
| Ethylbenzene | 67. |
| Naphthalene | Reserved |
| Phenanthrene | 7.7 |
| Phenol | 2.7 |
| Toluene | 9.5 |
| Xylenes | Reserved |
| Cyanides (Total) | 1.8 |

| K052 wastewaters | Concentration (in mg/L) |
|--------------------|----------------------------|
| Benzene | 0.011 |
| Benzo(a)pyrene | 0.047 |
| o-Cresol | 0.011 |
| p-Cresol | 0.011 |
| 2,4-Dimethylphenol | 0.033 |
| Ethylbenzene | 0.011 |
| Naphthalene | 0.033 |
| Phenanthrene | 0.039 |
| Phenol | 0.047 |
| Toluene | 0.011 |
| Xylenes | 0.011 |
| Chromium (Total) | 0.20 |
| Lead | 0.037 |

| K062 wastewaters | Concentration (in mg/L) |
|------------------|----------------------------|
| Chromium (Total) | 0.32 |
| Lead | 0.04 |
| Nickel | 0.44 |

| K071 wastewaters | Concentration (in mg/L) |
|------------------|----------------------------|
| Mercury | 0.030 |

| K086 nonwastewaters-Solvent Washes Subcategory (see also Table A) | Concentration (in mg/kg) |
|--|-----------------------------|
| Acetone | 0.37 |
| -bis(2-ethylhexyl)- Diethylhexyl phthalate | 0.49 |
| n-Butyl alcohol | 0.37 |
| Cyclohexanone | 0.49 |
| 1,2-Dichlorobenzene | 0.49 |
| Ethyl acetate | 0.37 |
| Ethyl benzene | 0.031 |
| Methanol | 0.37 |
| Methylene chloride | 0.037 |
| Methyl ethyl ketone | 0.37 |
| Methyl isobutyl ketone | 0.37 |
| Naphthalene | 0.49 |
| Nitrobenzene | 0.49 |
| Toluene | 0.031 |
| 1,1,1,-Trichloroethane | 0.044 |
| Trichloroethylene | 0.031 |
| Xylenes | 0.015 |

| K086 wastewaters-Solvent Washes Subcategory | Concentration (in mg/L) |
|---|----------------------------|
| Acetone | 0.015 |
| -bis(2-ethylhexyl)- Diethylhexyl phthalate | 0.044 |
| n-Butyl alcohol | 0.031 |
| Cyclohexanone | 0.022 |
| 1,2-Dichlorobenzene | 0.044 |
| Ethyl acetate | 0.031 |
| Ethyl benzene | 0.015 |
| Methanol | 0.031 |
| Methylene chloride | 0.031 |
| Methyl ethyl ketone | 0.031 |
| Methyl isobutyl ketone | 0.031 |
| Naphthalene | 0.044 |
| Nitrobenzene | 0.044 |
| Toluene | 0.029 |
| 1,1,1,-Trichloroethane | 0.031 |
| Trichloroethylene | 0.029 |
| Xylenes | 0.015 |
| Chromium (Total) | 0.32 |
| Lead | 0.037 |

| K087 nonwastewaters (see also Table A) | Concentration (in mg/kg) |
|--|-----------------------------|
| Acenaphthalene | 3.4 |
| Benzene | 0.071 |
| Chrysene | 3.4 |
| Fluoranthene | 3.4 |
| Indeno(1,2,3-cd)pyrene | 3.4 |
| Naphthalene | 3.4 |
| Phenanthrene | 3.4 |
| Toluene | 0.65 |
| Xylenes | 0.070 |

| K087 wastewaters | Concentration (in mg/L) |
|--------------------------|----------------------------|
| Acenaphthalene | 0.028 |
| Benzene | 0.014 |
| Chrysene | 0.028 |
| Fluoranthene | 0.028 |
| Indeno (1,2,3-cd) pyrene | 0.028 |
| Naphthalene | 0.028 |
| Phenanthrene | 0.028 |
| Toluene | 0.008 |
| Xylenes | 0.014 |
| Lead | 0.037 |

| K095 Nonwastewaters | Concentration (in mg/kg) |
|----------------------------------|-----------------------------|
| <u>1,1,1,2-Tetrachloroethane</u> | <u>5.6</u> |
| <u>1,1,2,2-Tetrachloroethane</u> | <u>5.6</u> |
| <u>Tetrachloroethene</u> | <u>6.0</u> |
| <u>1,1,2-Trichloroethane</u> | <u>6.0</u> |
| <u>Trichloroethylene</u> | <u>5.6</u> |
| <u>Hexachloroethane</u> | <u>28.</u> |
| <u>Pentachloroethane</u> | <u>5.6</u> |

| K096 Nonwastewaters | Concentration (in mg/kg) |
|----------------------------------|-----------------------------|
| <u>1,3-Dichlorobenzene</u> | <u>5.6</u> |
| <u>Pentachloroethane</u> | <u>5.6</u> |
| <u>1,1,1,2-Tetrachloroethane</u> | <u>5.6</u> |
| <u>1,1,2,2-Tetrachloroethane</u> | <u>5.6</u> |
| <u>Tetrachloroethylene</u> | <u>6.0</u> |
| <u>1,2,4-Trichlorobenzene</u> | <u>19.</u> |
| <u>Trichloroethylene</u> | <u>5.6</u> |
| <u>1,1,2-Trichloroethane</u> | <u>6.0</u> |

| K099 nonwastewaters | Concentration (in mg/kg) |
|--------------------------------|-----------------------------|
| 2,4-Dichlorophenoxyacetic acid | 1.0 |
| Hexachlorodibenzo-p-dioxins | 0.001 |
| Hexachlorodibenzofurans | 0.001 |
| Pentachlorodibenzo-p-dioxins | 0.001 |
| Pentachlorodibenzofurans | 0.001 |
| Tetrachlorodibenzo-p-dioxins | 0.001 |
| Tetrachlorodibenzofurans | 0.001 |

| K099 wastewaters | Concentration (in mg/L) |
|--------------------------------|----------------------------|
| 2,4-Dichlorophenoxyacetic acid | 1.0 |
| Hexachlorodibenzo-p-dioxins | 0.001 |
| Hexachlorodibenzofurans | 0.001 |
| Pentachlorodibenzo-p-dioxins | 0.001 |
| Pentachlorodibenzofurans | 0.001 |
| Tetrachlorodibenzo-p-dioxins | 0.001 |
| Tetrachlorodibenzofurans | 0.001 |

| K101 nonwastewaters (Low Arsenic Subcategory- less than 1% total arsenic) (see also Table A) | Concentration (in mg/kg) |
|---|-----------------------------|
| ortho-Nitroaniline | 14. |

| K101 wastewaters | Concentration (in mg/L) |
|--------------------|----------------------------|
| ortho-Nitroaniline | 0.27 |
| Arsenic | 2.0 |
| Cadmium | 0.24 |
| Lead | 0.11 |
| Mercury | 0.027 |

| K102 nonwastewaters (Low Arsenic Subcategory- less than 1% total arsenic) (see also Table A) | Concentration (in mg/kg) |
|---|-----------------------------|
| ortho-Nitrophenol | 13. |

| K102 wastewaters | Concentration (in mg/L) |
|-------------------|----------------------------|
| ortho-Nitrophenol | 0.028 |
| Arsenic | 2.0 |
| Cadmium | 0.24 |

| | |
|---------|-------|
| Lead | 0.11 |
| Mercury | 0.027 |

| K103 nonwastewaters | Concentration (in mg/kg) |
|---------------------|-----------------------------|
| Aniline | 5.6 |
| Benzene | 6.0 |
| 2,4-Dinitrophenol | 5.6 |
| Nitrobenzene | 5.6 |
| Phenol | 5.6 |

| K103 wastewaters | Concentration (in mg/L) |
|-------------------|----------------------------|
| Aniline | 4.5 |
| Benzene | 0.15 |
| 2,4-Dinitrophenol | 0.61 |
| Nitrobenzene | 0.073 |
| Phenol | 1.4 |

| K104 nonwastewaters | Concentration (in mg/kg) |
|---------------------|-----------------------------|
| Aniline | 5.6 |
| Benzene | 6.0 |
| 2,4-Dinitrophenol | 5.6 |
| Nitrobenzene | 5.6 |
| Phenol | 5.6 |
| Cyanides (Total) | 1.8 |

| K104 wastewaters | Concentration (in mg/L) |
|-------------------|----------------------------|
| Aniline | 4.5 |
| Benzene | 0.15 |
| 2,4-Dinitrophenol | 0.61 |
| Nitrobenzene | 0.073 |
| Phenol | 1.4 |
| Cyanides (Total) | 2.7 |

| <u>K115 Wastewaters</u> | <u>Concentration</u> |
|-------------------------|----------------------|
| <u>See also Table A</u> | <u>(in mg/L)</u> |
| <u>Nickel</u> | <u>0.47</u> |

| | |
|----------------------------|--|
| <u>P013 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/g)</u> |
|----------------------------|--|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| | |
|-------------------------|--|
| <u>P013 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |

| | |
|----------------------------|---|
| <u>P021 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| | |
|-------------------------|--|
| <u>P021 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |

| | |
|----------------------------|---|
| <u>P029 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| | |
|-------------------------|--|
| <u>P029 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |

| | |
|----------------------------|---|
| <u>P030 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| | |
|----------------------------|--|
| <u>P030 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |

| | |
|----------------------------|---|
| <u>P039 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
| <u>Disulfoton</u> | <u>0.1</u> |

| | |
|-------------------------|--|
| <u>P039 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
| <u>Disulfoton</u> | <u>0.025</u> |

| | |
|----------------------------|---|
| <u>P063 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| | |
|----------------------------|--|
| <u>P063 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |

| | |
|----------------------------|---|
| <u>P071 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
| <u>Methyl parathion</u> | <u>0.1</u> |

| | |
|-------------------------|--|
| <u>P071 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
| <u>Methyl parathion</u> | <u>0.025</u> |

| | |
|---|---|
| <u>P074 Nonwastewaters</u> <u>See also Table A</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|---|---|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| | |
|--|--|
| <u>P074 Wastewaters</u> <u>See also Table A</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|--|--|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |
| <u>Nickel</u> | <u>0.44</u> |

| | |
|----------------------------|---|
| <u>P089 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|------------------|------------|
| <u>Parathion</u> | <u>0.1</u> |
|------------------|------------|

| | |
|-------------------------|--|
| <u>P089 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|------------------|--------------|
| <u>Parathion</u> | <u>0.025</u> |
|------------------|--------------|

| | |
|----------------------------|---|
| <u>P094 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|----------------|------------|
| <u>Phorate</u> | <u>0.1</u> |
|----------------|------------|

| | |
|-------------------------|--|
| <u>P094 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|----------------|--------------|
| <u>Phorate</u> | <u>0.025</u> |
|----------------|--------------|

| | |
|----------------------------|---|
| <u>P097 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|----------------|------------|
| <u>Famphur</u> | <u>0.1</u> |
|----------------|------------|

| <u>P097 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|
|-------------------------|--|

| | |
|----------------|--------------|
| <u>Famphur</u> | <u>0.025</u> |
|----------------|--------------|

| <u>P098 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|
|----------------------------|---|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| <u>P098 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|
|-------------------------|--|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |

| <u>P099 Nonwastewaters</u> <u>(See also Table A)</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|---|---|
|---|---|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| <u>P099 Wastewaters</u> <u>(See also Table A)</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|--|--|
|--|--|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |

| <u>P104 Nonwastewaters</u> <u>(See also Table A)</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|---|---|
|---|---|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| <u>P104 Wastewaters</u> <u>(See also Table A)</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|--|--|
|--|--|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |

| | |
|----------------------------|---|
| <u>Pi06 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| | |
|-------------------------|--|
| <u>Pi06 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |

| | |
|----------------------------|---|
| <u>Pi21 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>110.</u> |
| <u>Cyanides (Amenable)</u> | <u>9.1</u> |

| | |
|-------------------------|--|
| <u>Pi21 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|----------------------------|-------------|
| <u>Cyanides (Total)</u> | <u>1.9</u> |
| <u>Cyanides (Amenable)</u> | <u>0.10</u> |

| | |
|----------------------------|---|
| <u>U028 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|-------------------------------|------------|
| <u>Diethylhexyl phthalate</u> | <u>28.</u> |
|-------------------------------|------------|

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|-------------------------|--|
| <u>U028 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|-------------------------------|-------------|
| <u>Diethylhexyl phthalate</u> | <u>0.54</u> |
|-------------------------------|-------------|

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|----------------------------|---|
| <u>U069 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|-----------------------------|------------|
| <u>Di-n-butyl phthalate</u> | <u>28.</u> |
|-----------------------------|------------|

| | |
|-------------------------|--|
| <u>U069 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|-----------------------------|-------------|
| <u>Di-n-butyl phthalate</u> | <u>0.54</u> |
|-----------------------------|-------------|

| | |
|----------------------------|---|
| <u>U088 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|--------------------------|------------|
| <u>Diethyl phthalate</u> | <u>28.</u> |
|--------------------------|------------|

| | |
|-------------------------|--|
| <u>U088 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|--------------------------|-------------|
| <u>Diethyl phthalate</u> | <u>0.54</u> |
|--------------------------|-------------|

| | |
|----------------------------|---|
| <u>U102 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|---------------------------|------------|
| <u>Dimethyl phthalate</u> | <u>28.</u> |
|---------------------------|------------|

| | |
|-------------------------|--|
| <u>U102 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|---------------------------|-------------|
| <u>Dimethyl phthalate</u> | <u>0.54</u> |
|---------------------------|-------------|

| | |
|----------------------------|---|
| <u>U107 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|

| | |
|-----------------------------|------------|
| <u>Di-n-octyl phthalate</u> | <u>28.</u> |
|-----------------------------|------------|

| | |
|-------------------------|--|
| <u>U107 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|

| | |
|----------------------------|-------------|
| <u>D-n-octyl phthalate</u> | <u>0.54</u> |
|----------------------------|-------------|

| <u>U190 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|
|----------------------------|---|

| | |
|---|------------|
| <u>Phthalic anhydride (measured as Phthalic acid)</u> | <u>28.</u> |
|---|------------|

| <u>U190 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|
|-------------------------|--|

| | |
|---|-------------|
| <u>Phthalic anhydride (measured as Phthalic acid)</u> | <u>0.54</u> |
|---|-------------|

| <u>U235 Nonwastewaters</u> | <u>Concentration</u> <u>(in mg/kg)</u> |
|----------------------------|---|
|----------------------------|---|

| | |
|---|------------|
| <u>Tris-(2,3-dibromopropyl) phosphate</u> | <u>0.1</u> |
|---|------------|

| <u>U235 Wastewaters</u> | <u>Concentration</u> <u>(in mg/L)</u> |
|-------------------------|--|
|-------------------------|--|

| | |
|---|--------------|
| <u>Tris-(2,3-dibromopropyl) phosphate</u> | <u>0.025</u> |
|---|--------------|

No Land Disposal for:

~~-K004 Nonwastewaters (Based on No Generation)-~~

K005 Nonwastewaters generated by the process described in the waste listing description, and disposed after June 8, 1989, and not generated in the course of treating wastewater forms of these wastes. (Based on No Generation)

K007 Nonwastewaters generated by the process described in the waste listing description, and disposed after June 8, 1989, and not generated in the course of treating wastewater forms of these wastes. (Based on No Generation)

~~-K008 Nonwastewaters (Based on No Generation)-~~

~~-K015 Nonwastewaters (Based on No Ash)-~~

K021 ~~Nonwastewaters~~ Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes. (Based on No Generation)

K025 ~~Nonwastewaters~~ Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes. (Based on No Generation)

K036 -Nonwastewaters-Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes. (Based on No Generation)

K044 (Based on Reactivity)

K045 (Based on Reactivity)

K047 (Based on Reactivity)

K060 -Nonwastewaters-Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes. (Based on No Generation)

K061 Nonwastewaters-High Zinc Subcategory (greater than or equal to 15% total zinc) (Based on Recycling): effective 8/8/90

K069 -Nonwastewaters-Non-Calcium Sulfate Subcategory Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes. (Based on Recycling)

-K083 Nonwastewaters-No Ash Subcategory (less than 0.01% total ash) (Based on No Ash)-

K100 -Nonwastewaters- Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes. (Based on No Generation)

Source: Amended at 14 Ill. Reg. effective