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**OHIO EPA COMMENTS ON THE FEASIBILITY
STUDY (FS) WORK PLAN AND A LISTING OF
STATE ARARS**

08/02/89

**OEPA/DOE-FN
22
COMMENTS**



State of Ohio Environmental Protection Agency

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Richard F. Celeste
Governor

August 2, 1989.

Mr. James A. Reafsnyder
Site Manager
DOE-FMPC
P.O. Box 398705
Cincinnati, OH 45239

Dear Mr. Reafsnyder:

Attached, please find Ohio EPA Comments on the Feasibility Study (FS) Work Plan as well as a listing of State ARARs. Additional ARARs may be identified, but this list is a good "first cut" for planning purposes. If you have any questions, please contact Mike Starkey or me.

Sincerely,

Route OUC's


Graham E. Mitchell
OEPA FMPC Coordinator

GEM/lal

cc: Mike Starkey, OEPA/SWDO
Catherine McCord, USEPA, Region 5

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FS WORK PLAN
OHIO EPA COMMENTS

1. Section 1.0, page 2, second paragraph: USEPA's March 1988 draft RI/FS guidance document has undergone further revisions and was reprinted in October, 1988 (document number EPA/540/G-89/004). The FS should use this revised version of the guidance.
2. Section 2.2.5, page 5: It is not clear under item (2) in this section how the "no-action" scenario could progressively change. No action means no action, and this should not change as a result of source control measures for other operable units.
3. Section 2.0, page 8, Ground Water: Objectives 7, 8, and 9 fail to mention the need to prevent ingestion of ground water that has levels of carcinogens or non-carcinogens for which no established standards exist. Other criteria such as proposed MCLs, MCLGs, & and 10^{-6} incremental lifetime cancer risk must also be considered for each contaminant detected in the ground water.
4. Section 2.0, page 8, Surface Water: Objective 13 should mention the need to restore surface water quality so aquatic species are not adversely affected whether through biomagnification, bioaccumulation, or simple toxicity.
5. Section 2.0, page 9, Air: It is not clear if objectives 16, 17, and 18 are also intended to consider exposure by inhalation of volatile contaminants or radionuclides from contaminated groundwater through cooking, showering, etc. This potential exposure route must be considered. Also, all compounds evaluated may not have established acceptable levels (i.e. standards), yet some other criteria may exist or may need to be developed in the endangerment assessment and considered in feasibility study.

6. Section 2.0, page 9, Soils: Again, objectives 21 and 22 must include criteria other than established standards, especially since standards do not exist for all contaminants. These criteria may be proposed standards, criteria developed from the endangerment assessment, etc.
7. Section 2.0, page 9, Structures: Since the word "established" as used in Objective 23 implies a promulgated standard, the use of this word is not appropriate as standards do not exist for all chemicals or radionuclides. It is suggested that the work "established" be replaced by the word "acceptable."
8. Section 3.5.3, page 15: Cost cannot be used to choose between alternatives that include treatment as a principal element and non-treatment alternatives.
9. Section 3.6.2, page 17: Regardless of OEPA's role as an active participant in the RI/FS findings and reports, state (and community) acceptance must still be evaluated as part of the ROD(s) for the site since this is an integral part of the RI/FS process. There is also the possibility that the state may not concur with DOE or USEPA on all proposed remedies for the different operable units.
10. Section 3.7, page 17: Again, the evaluation criteria of state and community acceptance should be left until the public comment period once a "preferred alternative" is chosen for each operable unit. State and community concerns and acceptance would be part of the responsiveness summary for the ROD for each operable unit.
11. Section 5.2, page 3: Those state ARARs and TBC criteria listed in this section and in Tables 5.2, 5.4 and 5.6 are by no means complete. Any actions undertaken at the site must comply with state law, whether or not a law is as stringent or more stringent than federal law. This includes meeting all substantive and administrative permitting requirements for on site actions. A preliminary list of state requirements are provided as an attachment to this memo. This list should not be construed by DOE to be an exhaustive listing of state requirements. Additional requirements may be identified later as the feasibility study progresses.
12. Section 5.2.1, page 4: RCRA Subtitle D (solid waste) and the Solid Waste Disposal Act (SWDA) may also constitute ARARs for remedial actions at the FMPC.

13. Section 5.2.1, page 5: The abbreviation AWQC needs to be defined here, since this is the first time in the text that it is used.
14. Section 5.2.1, page 6, Health Effects Assessments bullet: Carcinogenic Potency Factors and Reference Doses are regularly updated and are contained in USEPA's Integrated Risk Information System (IRIS) database. Therefore, some of the factors and doses given in the Superfund Public Health Evaluation Manual are out of date.
15. Section 5.2.2, page 11, Siting Criteria: The correct siting criteria citation is ORC 3734.05 (D)(6)(g). Other portions of ORC 3734.05 may also apply to the site such as Section (D)(6)(e).
16. Section 5.3.2, page 13: Under USEPA CERCLA risk assessment guidance, a conservative assumption such as that given as a DOE guideline in this section is also used. In other words, the risk assessment does not, and should not look merely at current conditions in terms of exposure of receptors to contaminants, but must also evaluate potential exposure under a scenario such as future development of FMPC property for commercial and/or residential uses or exposure through site trespass. Under a future development scenario, the public could come into direct contact with site wastes and could consume contaminated groundwater through the installation of drinking water wells on the FMPC property. This is precisely what the endangerment assessment is all about, that is, the evaluation of risks, both current and future, under the no-action alternative. The result of this is very well stated in the last sentence of the first paragraph on page 14: "The latter case (i.e. the unrestricted access scenario for ingestion of groundwater) could result in (at least) an MCL cleanup standard for all groundwater underlying the FMPC."
17. Section 5.3.3, page 15, second paragraph: Under USEPA risk assessment guidance and as discussed in the above comment on Section 5.3.2, the other dose limits mentioned in this paragraph may be quite appropriate to use for the RI/FS at the FMPC.
18. Section 5.3.3, page 15, last paragraph: The radionuclide concentration limits mentioned in this paragraph appear to be very appropriate for the FMPC and must be considered in the endangerment assessment and in the FS.

- 19. Table 2.2: The remedial action objectives that have been identified for many of the elements in each of the operable units are too narrow. For example, only one objective (#9) was identified for remedial actions to be considered for on-site ground water. Under a properly conducted endangerment assessment (which will assess future exposures to contaminated site media in addition to current exposures) and subsequent feasibility study, objectives 7 and 8 as identified in Section 2.3 also constitute remedial action objectives for on-site ground water. For the Southfield area solid wastes, objective #1 should also be marked on Table 2.2 for the area since contaminants found here are not solely radiological. Objectives 19 and 22 also appear to have applicability to the PCB transformer area. For all of the areas in operable unit #3 where soils are of potential concern and for which objectives 21 and 22 have been identified, objective 19 also has applicability.
- 20. Table 5.4: The correct citation for the siting criteria given on this table is ORC 3734.05(D)(6)(g).
- 21. Tables 5.7 and 5.8: Footnote "A" should denote an applicable or relevant and appropriate requirement.

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OHIO REQUIREMENTS: LAWS

LAW	DESCRIPTION	APPLICATION
ORC 3701.34 & 3701.344	Grants Ohio Department of Health exclusive power to establish and enforce rules regarding private water systems.	Installation or alterations to private water systems.
ORC 3704.03	Establishes OEPA's authority to regulate and control air pollution within the state.	Air pollution sources
ORC 3704.03 (I)	Requires person responsible for any air contaminant source to install, employ, maintain, & operate such emissions, ambient air quality, meteorological, or other monitoring devices or methods as director prescribes. Requires the sampling of emissions at such locations, intervals and in a manner which the director prescribes. Requires the maintenance of records and filing of periodic reports with the director on the location, size, and height of emissions outlets, as well as the rate, duration, and composition of emissions.	Operation, maintenance, and reporting for air pollution sources
ORC 3734.05 (D)(6)(c)	The Hazardous Waste Facility Board shall not approve an application for a hazardous waste facility installation and operation permit unless it finds and determines as follows: That the facility represents the minimum adverse environmental impact, considering the state of available technology, and the nature and economics of various alternatives, and other pertinent considerations.	Hazardous waste treatment, storage, and disposal facilities.

ORC 3734.05 (D)(6)(d)	The Hazardous Waste Facility Board shall not approve an application for a hazardous waste facility installation and operation permit until it finds and determines that the facility represents the minimum risk of all of the following:	Hazardous waste treatment, storage, and disposal facilities.
	<ul style="list-style-type: none"> i. contamination of ground and surface waters. ii. fires or explosions from treatment, storage, or disposal methods. iii. accident during transportation of hazardous waste to the facility. iv. impact on the public health and safety. v. air pollution. vi. soil contamination. 	
ORC 3734.05 (D)(6)(e)	The Hazardous Waste Facility Board shall not approve an application for a hazardous waste facility installation and operation permit unless it finds and determines that the facility will comply with Chapters 3704, 3734, and 6111 of the Revised Code and all rules and standards adopted under those chapters.	Hazardous waste treatment, storage, and disposal facilities.
ORC 3734.141	Conditions for disposal of acute hazardous wastes (pretreatment requirements).	Disposal of acute hazardous waste listed in 40 CFR 261.33(e).
ORC 3767	Nuisances: prohibition against noxious exhalations or smells, obstructions or pollution of water courses, other nuisances.	Nuisance prevention.
ORC 6101.19	Conservancy Districts: Board of Directors may make and enforce rules and regulations; non-compliance.	Activities in or near waterways governed by a conservancy district.
ORC 6109.19 (D)	No person shall erect within the drainage area of the district any dam or reservoir . . . or any work or obstruc-	Activities within drainage boundaries of a conservancy district.

tion diminishing the cross section of any such stream or water course until plans have been filed with conservancy district for the boards examination.

- ORC 6109.07 Safe Drinking Water: Construction plans to be approved by the Director; prohibitions. Construction, installation, or changes to a public water supply system.
- ORC 6109.12 Analysis of water required at intervals. Owners or operators of public water supply systems.
- ORC 6109.13 Prohibition against connection with private, auxiliary, or emergency water supply - approval by OEPA required. Connections from private, auxiliary, or emergency water supply systems to a public supply system.
- ORC 6111.04 Acts of pollution prohibited; exceptions. NPDES permits required for discharge to waters of the State. Pollution of waters of the State, (including surface water and ground water).
- ORC 6111.042 Regulations requiring compliance with national effluent standards; other effluent standards may be established on a case by case basis. Discharge of pollutants into waters of the State.
- ORC 6111.043 Liquid disposal permit (underground injection). Injection of waste liquids into wells.
- ORC 6111.44 Director must approve plans for new wastewater treatment works or modification of existing wastewater treatment works. Wastewater treatment.
- ORC 6111.45 Approval of plans for disposal of waste; plan approval by Director required for: any facility which produces, treats, or disposes of industrial waste or materially increases or changes in character any industrial waste, or install works for the treatment or disposal or such waste. "Industrial waste" defined Production, treatment, disposal or changes made to industrial waste and waste facilities.

here as a water carried or liquid waste resulting from any process of industry, manufacture, trade or business, or development of any natural resource."

ORC 1521.06 No dam, dike, or levee can be constructed in a watercourse unless a construction permit has been issued by the Chief of the Division of Water. Dams, dikes, or levees.

OHIO REQUIREMENTS: REGULATIONS

RULE OR REGULATION	DESCRIPTION	APPLICATION
OAC 3701-28	Rules providing standards, procedures, plan approval abandonment of private water systems.	Construction, alteration, or abandonment of private water systems.
OAC 3745-1-05A	Antidegradation Policy	Surface water.
OAC 3745-1-05B	The most stringent statutory and regulatory controls for waste treatment shall be required by the Director to be employed for all new and existing point sources.	Point source discharges.
OAC 3745-3-	Prohibited discharges.	Discharges to a POTW.
OAC 3745-3	Chapter establishes pretreatment standards, restrictions, reporting, etc.	Discharges to a POTW.
OAC 3745-9	Water well standards, (including plan approval and well and test hole abandonment).	New water wells intended for human consumption.
OAC 3745-15-06	Malfunctions of equipment, scheduled maintenance, reporting.	Air pollution control equipment.
OAC 3745-15-07	Prohibition of air pollution nuisance, re: escape of smoke, ashes, dust, dirt, grime, acids, fumes, gasses, vapors, odors, or any other substances or combinations of substances.	Escape, releases or emissions into the open air.

- OAC 3745-17-05 Non-degradation Policy - prohibits significant and avoidable deterioration of air quality. Air.
- OAC 3745-17-07 Control of visible particulate emissions from stationary sources. No discharges allowed over 20% capacity. Particulate emissions to air.
- OAC 3745-17-08 Restriction of emission of fugitive dust. Grading, roads, loading operations, demolition, construction, other practices which emit fugitive dust.
- OAC 3745-17-09 Restrictions on particulate emissions and odors from incinerators. Incinerators.
- OAC 3745-17-10 Restrictions on particulate emissions from fuel burning equipment. Fuel burning.
- OAC 3745-17-11 Restriction on particulate emissions from industrial processes. Processes, operations, or activities that release particulate emissions into the ambient air.
- OAC 3745-18 Sulfur dioxide regulations. Emissions of sulfur dioxide to air.
- OAC 3745-19 Open burning standards; requirements for notification to, and permission from, OEPA. Open burning is generally prohibited except in cases of certain silvicultural, range, and wild-life management practices, disposal of toxic or hazardous material where no practical alternative disposal method exists (as determined by OEPA) or in emergency or other

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| OAC 3745-21-05 | Non-degradation Policy:
carbon monoxide, ozone,
non-methane hydrocarbons. | Air quality. |
| OAC 3745-21-07 | Control of emissions of organic
materials from stationary sources
(includes a BAT requirement). | Emissions of
organic materials
to the atmosphere. |
| OAC 3745-21-08 | Control of carbon monoxide
emissions. | Emissions of CO to
the atmosphere. |
| OAC 3745-21-09 | Control of emissions of volatile
organic compounds from stationary
sources. | Storage, dispen-
sing, and use of
organic chemi-
cals, gasoline,
coatings, etc. |
| OAC 3745-23-04 | Non-degradation Policy. | Emissions of
nitrogen dioxides
to the atmos-
phere. |
| OAC 3745-23-06 | Control of nitrogen oxides
emissions from stationary
sources. | Emissions of
nitrogen oxides
to the atmos-
phere. |
| OAC 3745-25-03 | Emission Control Action Programs:
preparation for Air Pollution
Alerts, warnings, and emergencies. | Sources of air
contaminants
which emit 0.25
tons per day or
more of air
contaminants for
which air quality
standards have
been adopted. |
| OAC 3745-27-05 | Authorized, limited, and
prohibited solid waste disposal
methods. | Solid waste
disposal. |
| OAC 3745-27-06 | Solid waste disposal facility plan
approval. Approval of detailed
plans required from OEPA. | Any person pro-
posing to estab-
lish a new solid |

waste disposal facility or proposing to substantially modify solid waste disposal facility.

OAC 3745-27-06(H) The Director shall not approve any detail plans, specifications, and information unless he determines that:

Plans for establishing or modifying an existing solid waste disposal facility.

1. Establishment or modification and operation of the solid waste disposal facility will not create a nuisance or a health hazard, and will not cause water pollution, and will not violate any regulation adopted by the Director under ORC 3704; and
2. In the case of plans submitted by a person who has previously operated or is currently operating one or more solid waste disposal facilities, such person has operated such facilities in accordance with applicable provisions of ORC Chapter 3734; these Chapters, 3745-27 (EP-20) and 3745-37(EP-33); and/or Chapter 3745-26 (HE-24), in the course of such previous or current operations; and
3. The person identified as the operator of the solid waste disposal facility is competent and qualified to operate the solid waste disposal facility in accordance with OR Chapter 3734 and these Chapters: 3745-27(EP-20) and 3745.37 (EP-33); and
4. The solid waste disposal facility will be capable of operation in accordance with Regulations 3745-27-07 (EP-20-07), 3745-27-08 (EP-20-08); and 3745-27-09 (EP-20-09), and with the terms and conditions of waivers granted for the facili-

ty under Regulation 3745-27-11
(EP-20-11); and

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5. The sanitary landfill is not located in a floodway.

OAC 3745-27-06(I)

Except by means of a waiver granted under 3745-27-11 (EP-20-11), the Director shall not approve plans for a sanitary landfill under any of the following conditions:

Plan approval for a land disposal site.

1. The sanitary landfill will be located in a regulatory floodplain outside of a floodway; or
2. The sanitary landfill will be located in a sand or gravel pit; or
3. The sanitary landfill will be located in a limestone quarry or a sandstone quarry; or
4. Those portions of the sanitary landfill where waste materials are to be deposited will be located within 1000' of a water well in existence on the date the plans were received by the Ohio EPA; or
5. Those portions of the sanitary landfill where waste materials are to be deposited will be located within 200' of a stream or lake; or
6. The seasonal high groundwater table and the lowest level of waste materials in the sanitary landfill will be separated by less than 5 feet of soil of low permeability; or
7. The seasonal high groundwater table will be less than 5 feet below the existing surface of the site.

OAC 3745-27-09

Sanitary landfill operations: cover material, groundwater monitoring, leachate.

Solid waste disposal.

3020 OAC 3745-27- Closure of sanitary landfills.

Solid waste disposal.

OAC 3745-27- Requirements for leachate control,
10(H) collection, treatment.

Solid waste disposal.

OAC 3745-27- Explosive gas monitoring for
12 sanitary landfills

Solid waste disposal.

OAC 3745-27- Authorization from the director
13 is required to engage in filling,
grading, excavating, building,
drilling, or mining on land where
a hazardous waste facility or solid
waste facility is or was operated.

Solid waste disposal.

OAC 3745-31 A permit to install is required
for:

Applies to any
wastewater treat-
ment facility
and/or industrial
processes which
produce waste
wastewater.

i. a new process waste dis-
charge (as opposed to just
sewage) to the municipal
sewer, even if there is no
treatment.

ii. A new wastewater treatment
system.

iii. Any surface formation of
waste piles, as they could
generate contaminated
runoff.

OAC 3745-31- No person shall cause, permit,
02 or allow the installation of a
new source of air pollution or a
new disposal system as defined in
division (G) of Section 6111.01
of the ORC, or cause, permit, or
allow the modification of an
air contaminant source or a
disposal system, or establish
or modify a solid waste disposal
facility, without first obtaining
a permit to install from the
Director. With regard to disposal
systems as defined in
ORC 6111.01(G) applications for a
permit to install shall include
plans for the disposal system.

Establishment of
new facilities or
modifications of
existing waste
treatment and
disposal facili-
ties including
existing solid
disposal facili-
ties.

OAC 3745-31- Criteria for decision by the
05 Director. (Plans must
demonstrate best available
technology, and shall not

Facilities
requiring a Per-
mit to Install
(see 3745-31-02).

prevent or interfere with the attainment or maintenance of applicable ambient water quality standards or ambient air quality standards.)

OAC 3745-32-02	Section 401 Water Quality Certification required (in order to obtain a permit from Army Corps of Engineers for Section 10 of Rivers and Harbors Act and/or Section 404 of Federal Water Pollution Control Act, and any other federal permit or license to conduct any activity which may result in any discharge to waters of the State.	Federally permitted or licensed activities which may result in any (impact or) discharge to waters of the State.
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OAC 3745-32-05	Criteria for decision by Director	Section 401 water quality certifications.
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OAC 3745-33-04	Ohio NPDES Permit required (no person may discharge any pollutant or cause, permit, or allow a discharge of any pollutant without applying for and obtaining an Ohio NPDES Permit.	Discharge of pollutants to waters of the State.
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OAC 3745-33-04	Criteria for issuing permits (effluent limits).	Facilities requiring NPDES Permits.
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OAC 3745-33-05	General permit conditions.	Facilities requiring NPDES Permits.
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OAC 3745-34	Underground injection control program.	Injection of fluids via wells.
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OAC 3745-35	Air permits to operate and variances.	Air contaminant sources.
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OAC 3745-36	Permit requirements for dischargers to non-targeted POTWs (no specific pretreatment program in place).	Discharges to POTWs; (where a local authorized pretreatment program is <u>not</u> in place).
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OAC 3745-37-01	Solid waste disposal license required.	Operating solid waste disposal facilities.
OAC 3745-37-02	Solid waste disposal license application.	Operating solid waste disposal facilities.
OAC 3745-37-03	Criteria for issuing solid waste disposal licenses.	Operating solid waste disposal facilities.
OAC 3745-50-44	Contents of "Part B" of the permit application.	On-site treatment, storage; or disposal of hazardous wastes.
OAC 3745-50-48	Requirements for recording and reporting of monitoring results.	On-site treatment, storage or disposal of hazardous wastes.
OAC 3745-50-62	Trial burn.	Hazardous waste incinerators.
OAC 3745-51-06	Requirements for recyclable materials.	Hazardous wastes that are recycled.
OAC 3745-51-07	Residues of hazardous waste in empty containers.	Empty containers.
OAC 3745-51-11	Criteria for listing hazardous waste.	Waste classification.
OAC 3745-51-20	Criteria for characterizing hazardous waste material. (21-24).	Waste characterization.
OAC 3745-51-21	Ignitability - solid, liquid and gaseous waste.	Waste characterization.
OAC 3745-51-22	Corrosivity - aqueous and liquid waste.	Waste characterization.
OAC 3745-51-23	Reactivity of material.	Waste characterization.
OAC 3745-51-24	EP toxicity of material.	Waste characterization.
OAC 3745-51-30 thru 32	Lists of hazardous waste - general, non-specific sources, specific sources.	Waste characterization.

OAC 3745-51-33	Discarded commercial chemical products, off-specification species, container residues and residues thereof.	Waste characterization.
OAC 3745-52	Generator standards.	Hazardous wastes generated, treated, stored, or disposed (either on-site or sent off-site)
OAC 3745-53	Transporter standards.	Hazardous waste transporters.
OAC 3745-54-10 thru 18	General Facility Standards. ("permitted facilities").	Hazardous waste treatment, storage, or disposal.
OAC 3745-54-18	Location standards (seismic considerations and floodplains).	Location of hazardous waste treatment, storage or disposal.
OAC 3745-54-30 thru 37	Preparedness and prevention.	Hazardous waste treatment, storage, or disposal facilities.
OAC 3745-54-50 thru 56	Contingency plan and emergency procedures.	Hazardous waste treatment, storage, or disposal facilities.
OAC 3745-54-70 thru 77	Manifest system, record keeping and reporting.	Hazardous waste treatment, storage, or disposal facilities.
OAC 3745-54-90 thru 99	Groundwater Protection - including groundwater protection standard, point of compliance, monitoring program.	Hazardous waste treatment, storage, or disposal facilities.
OAC 3745-55-01	Corrective Action Program (groundwater protection).	Hazardous waste treatment, storage, or disposal facilities.
OAC 3745-55-02	Record Keeping and Reporting.	Groundwater monitoring data.

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- OAC 3745-55- Closure and Post-Closure -
10 thru 20 New facility standards. New hazardous waste units and units retrofitted to "Part B" standards.

- OAC 3745-55- Financial Requirements for
40 thru 51 closure, post-closure, liability. Hazardous waste treatment, storage, and disposal facilities.

- OAC 3745-55- Use and Management of Containers.
70 thru 78 Container (drum, etc.) storage of hazardous waste (new or retrofitted for continuing use).

- OAC 3745-55- Design and operation of tanks.
90 thru 991 Tank storage or treatment of hazardous waste (new or retrofitted for continuing use).

- OAC 3745-56- Surface Impoundments:
20 thru 34 design and operating requirements. New or retrofitted surface impoundments.

- OAC 3745-56- Waste Piles: design and operating
50 thru 60 requirements. New or retrofitted waste piles.

- OAC 3745-56- Land treatment.
70 thru 83 Land treatment of hazardous waste.

- OAC 3745-57 Hazardous waste: Environmental
01 Performance Standards. Location, design, construction, operation, maintenance, and closure of landfills, waste piles, surface impoundments, and underground injection wells.

- OAC 3745-57- Landfills.
02 thru 18 New hazardous waste landfills.

- OAC 3745-57- Incinerators.
40 thru 51 Hazardous waste incinerators.

- OAC 3745-58-01 thru 33 Standards for the management of recyclable materials - including use constituting disposal. Hazardous materials that are used in a manner that constitutes disposal.
- OAC 3745-58-40 thru 47 Requirements for hazardous wastes burned for energy recovery. Management and use of hazardous waste fuels.
- OAC 3745-58-50 thru 54 Requirements for used oil burned for energy recovery. Management and use of hazardous waste fuels.
- OAC 3745-58-60 Applicability and requirements; recyclable materials used for precious metal recovery. Recyclable materials containing precious metals.
- OAC 3745-58-70 Applicability and requirements spent lead acid batteries being reclaimed. Spent lead acid batteries.
- OAC 3745-66-1 Closure Performance Standard: facilities must be closed in a manner that: Closure of existing hazardous waste units.
 - A. Minimizes the need for further maintenance.
 - B. Controls, minimizes, or eliminates . . . post closure escape of hazardous waste, hazardous waste constituents, leachate, contaminated rainfall, waste decomposition products . . . to the ground, surface water, atmosphere, and
 - C. Complies with the closure requirements for rules 3745-66-10 to 66-20; 66-97, 67-28, 67-58; 68-10; 67-80; 68-51; 68-81; 69-04.
- OAC 3745-66-12 Closure Plan; Amendment of Plan (usually will be in format of RD/RA plan). Closure of existing hazardous waste units.
- OAC 3745-66-13 Time allowed for closure. Closure of existing hazardous waste units.

OAC 3745-66-14	Disposal or decontamination of equipment, structures, and soils.	Closure of existing hazardous waste units.
OAC 3745-66-15	Certification of Closure.	Closure of existing hazardous waste units.
OAC 3745-66-16	Survey Plat - submittal to local zoning authority.	Closure of hazardous waste disposal units.
OAC 3745-66-17	Post-closure care and use of property.	Closed hazardous waste (existing) units.
OAC 3745-66-18	Post-closure Plan; Amendment of Plan.	Closed hazardous waste (existing) units.
OAC 3745-66-19	Post-closure Notices.	Closed hazardous waste (existing) units.
OAC 3745-66-20	Certification of completion of post-closure care.	Closed hazardous waste (existing) units.
OAC 3745-66-97	Tank system closure and post-closure care.	Closure of tank systems.
OAC 3745-67-28	Surface impoundment closure and post-closure care (note: must also meet performance standard 3745-66-11).	Closure of existing surface impoundments.
OAC 3745-67-58	Waste pile closure and post-closure care (note: must also meet performance standard 3745-66-11).	Closure of existing waste piles.
OAC 3745-67-80	Land treatment unit closure and post-closure (note: must also meet performance standard 3745-66-11.)	Closure of existing land treatment unit.
OAC 3745-68-10	Landfill closure and post-closure care (note: must also meet performance standard 3745-66-11).	Closure of existing landfills.
OAC 3745-68-51	Incinerator closure.	Closure of existing incinerators.

- OAC 3745-68-81 Closure: Thermal Treatment Units. Closure of existing thermal treatment units.
- OAC 3745-68-82 Open burning: waste explosives. Treatment of waste explosives.
- OAC 3745-69-04 Closure: Chemical, Physical, and Biological Treatment Units Existing chemical, physical, and biological treatment units.
- OAC 1501-21 Ohio Administrative rules for issuing construction permits for and making periodic inspections of dams, dikes and levees (ODNR). Dams, dikes, and levees.
- OAC 3701-28 Rules of the Ohio Department of Health, Public Health Council-Private Water Systems. Installation, alteration, or abandonment of private water systems.
- OAC 3701-70 General Radiation Protection Standards. All facilities that receive, possess, use, store, transfer, install, service, or dispose of any source of radiation requiring registration by their handlers.
- OAC 3701-71-01 Registration of Handlers of Ionizing Radiation Sources. Radiation generating equipment and radioactive materials.
- OAC 3701-71-02 Types of ionizing radiation sources requiring registration by their handlers. Radiation generating equipment and radioactive materials.
- OAC 3701-38 Ohio Radiation Protection Standards. Radiation generating equipment and radioactive materials.
- OAC 3745-81-01 thru 55 Drinking Water Rules. Public drinking water.
- OAC 3745-81-11 Maximum Contaminant Levels (MCLs) for inorganic chemicals. Public drinking water.

- 4000 12	3745-81- MCLs for organic chemicals.	Public drinking water.
OAC 13	3745-81- MCLs for turbidity.	Public drinking water.
OAC 14	3745-81- Maximum microbiological contaminant levels.	Public drinking water.
OAC 15	3745-81- MCLs for Radium 226, Radium 228, gross alphas.	Public drinking water.
OAC 16	3745-81- MCLs for beta particle and photon radioactivity from man-made radionuclides.	Public drinking water.
OAC	3745-82 Secondary contaminant standards.	Public drinking water.
OAC	3745-83 Operational Requirements - disinfection, approval of chemicals, minimum pressure, reporting.	Community and major non-community drinking water systems.
OAC	3745-91 Plans approval - construction or significant changes to public water systems require OEPA approval of plans.	Construction or changes to public water supply systems.
OAC	3745-95 Backflow prevention and cross-connections control.	Water service connections to public water supply systems.

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