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Title 22@ Social Security

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Division 4.5@ Environmental Health Standards for the Management of Hazardous Waste

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Chapter 20@ The Hazardous Waste Permit Program

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Article 2@ Permit Application

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Section 66270.17@ Specific Part B Information Requirements for Surface Impoundments

66270.17 Specific Part B Information Requirements for Surface Impoundments

Except as otherwise provided in section 66264.1 , owners and operators of facilities that store, treat or dispose of hazardous waste in surface impoundments shall provide the following additional information:

(a)

a list of the hazardous wastes placed or to be placed in each surface impoundment;

(b)

detailed plans and an engineering report describing how the surface impoundment is designed and is or will be constructed, operated and maintained to meet the requirements of sections 66264.19, 66264.221, 66264.222, and 66264.223 of this chapter, addressing the following items:(1) the liner system (except for an existing portion of a surface impoundment). If an exemption from the requirement for a liner is sought as provided by section 66264.221(b), submit detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous constituents into the ground water or surface water at any future time; (2) prevention of overtopping; (3) structural integrity of dikes, including information described in section 66264.228(e)(18), whether or not dikes will remain after closure; (4) The double

liner and leak (leachate) detection, collection, and removal system, if the surface impoundment shall meet the requirements of section 66264.221(c) of this chapter. If an exemption from the requirements for double liners and a leak detection, collection, and removal system or alternative design is sought as provided by section 66264.221(f), (g), or (k) of this chapter, submit appropriate information; (5) If the leak detection system is located in a saturated zone, submit detailed plans and an engineering report explaining the leak detection system design and operation, and the location of the saturated zone in relation to the leak detection system; (6) The construction quality assurance (CQA) plan if required under section 66264.19 of this chapter; (7) Proposed action leakage rate, with rationale, if required under section 66264.222 of this chapter, and response action plan, if required under section 66264.223 of this chapter;

(1)

the liner system (except for an existing portion of a surface impoundment). If an exemption from the requirement for a liner is sought as provided by section 66264.221(b), submit detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous constituents into the ground water or surface water at any future time;

(2)

prevention of overtopping;

(3)

structural integrity of dikes, including information described in section 66264.228(e)(18), whether or not dikes will remain after closure;

(4)

The double liner and leak (leachate) detection, collection, and removal system, if the

surface impoundment shall meet the requirements of section 66264.221(c) of this chapter. If an exemption from the requirements for double liners and a leak detection, collection, and removal system or alternative design is sought as provided by section 66264.221(f), (g), or (k) of this chapter, submit appropriate information;

(5)

If the leak detection system is located in a saturated zone, submit detailed plans and an engineering report explaining the leak detection system design and operation, and the location of the saturated zone in relation to the leak detection system;

(6)

The construction quality assurance (CQA) plan if required under section 66264.19 of this chapter;

(7)

Proposed action leakage rate, with rationale, if required under section 66264.222 of this chapter, and response action plan, if required under section 66264.223 of this chapter;

(c)

detailed plans and an engineering report explaining the location of the saturated zone in relation to the surface impoundment, and the design of a double-liner system that incorporates a leak detection system between the liners;

(d)

A description of how each surface impoundment, including the double liner system, leak detection system, cover system and appurtenances for control of overtopping, will be inspected in order to meet the requirements of section 66264.226(a), (b) and (d) of this chapter. This information shall be included in the inspection plan submitted under section 66270.14(b)(5);

(e)

a certification by an independent, qualified, professional engineer, registered in California which attests to the structural integrity of each dike, as required under section 66264.226(c). For new units, the owner or operator shall submit a statement by an independent, qualified, professional engineer, registered in California, that the engineer will provide such a certification upon completion of construction in accordance with the plans and specifications;

(f)

a description of the procedure to be used for removing a surface impoundment from service, as required under sections 66264.227(b) and (c). This information shall be included in the contingency plan submitted under section 66270.14(b)(7);

(g)

a description of how hazardous waste residues and contaminated materials will be removed from the unit at closure, as required under section 66264.228(a)(1). For any wastes not to be removed from the unit upon closure, the owner or operator shall submit detailed plans and an engineering report describing how sections 66264.228(a)(2) and (b) will be complied with. This information shall be included in the closure plan and, where applicable, the post-closure plan submitted under section 66270.14(b)(13);

(h)

if ignitable or reactive wastes are to be placed in a surface impoundment, an explanation of how section 66264.229 will be complied with;

(i)

if incompatible wastes, or incompatible wastes and materials will be placed in a surface impoundment, an explanation of how section 66264.230 will be complied with.

(j)

a waste management plan for EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027 describing how the surface impoundment is or will be designed, constructed, operated, and maintained to meet the requirements of section 66264.231. This submission shall address the following items as specified in section 66264.231: (1) the volume, physical, and chemical characteristics of the wastes, including their potential to migrate through soil or to volatilize or escape into the atmosphere; (2) the attenuative properties of underlying and surrounding soils or other materials; (3) the mobilizing properties of other materials co-disposed with these wastes; and (4) the effectiveness of additional treatment, design, or monitoring techniques.

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the attenuative properties of underlying and surrounding soils or other materials;

(3)

the mobilizing properties of other materials co-disposed with these wastes; and

(4)

the effectiveness of additional treatment, design, or monitoring techniques.

(k)

Information on air emission control equipment as required in section 66270.27.