**Section 703.203 Surface Impoundments**

For a facility that stores, treats, or disposes of hazardous waste in surface impoundments, except as otherwise provided in 35 Ill. Adm. Code 724.101, the Part B application must include the following:

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 35 Ill. Adm. Code 724.119, 724.321, 724.322, and 724.323, 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 35 Ill. Adm. Code 724.321(b), submit a copy of the Board order granting an adjusted standard pursuant to 35 Ill. Adm. Code 724.321(b);

2) The double liner and leak (leachate) detection, collection and removal system, if the surface impoundment must meet the requirements of 35 Ill. Am. Code 724.321(c). 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 35 Ill. Adm. Code 724.321(d), (e), or (f), submit appropriate information;

3) 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;

4) The construction quality assurance (CQA) plan if required under 35 Ill. Adm. Code 724.119;

5) Proposed action leakage rate, with rationale, if required under 35 Ill. Adm. Code 724.322; response action plan, if required under 35 Ill. Adm. Code 724.323; and a proposed pump operating level, if required under 35 Ill. Adm. Code 724.326(d)(3);

6) Prevention of overtopping; and

7) Structural integrity of dikes.

c) 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 35 Ill. Adm. Code 724.326(a), (b), and (d). This information must be included in the inspection plan submitted under Section 703.183(e).

d) A certification by a qualified engineer that attests to the structural integrity of each dike, as required under 35 Ill. Adm. Code 724.326(c). For new units, the owner or operator must submit a statement by a qualified engineer that the engineer will provide such a certification upon completion of construction in accordance with the plans and specifications.

e) A description of the procedure to be used for removing a surface impoundment from service, as required under 35 Ill. Adm. Code 724.327(b) and (c). This information must be included in the contingency plan submitted under Section 703.183(g).

f) A description of how hazardous waste residues and contaminated materials will be removed from the unit at closure, as required under 35 Ill. Adm. Code 724.328(a)(1). For any wastes not to be removed from the unit upon closure, the owner or operator must submit detailed plans and an engineering report describing how 35 Ill. Adm. Code 724.328(a)(2) and (b) will be complied with. This information must be included in the closure plan and, where applicable, the post-closure plan submitted under Section 703.183(m).

g) If ignitable or reactive wastes are to be placed in a surface impoundment, an explanation of how 35 Ill. Adm. Code 724.329 will be complied with.

h) If incompatible wastes, or incompatible wastes and materials, will be placed in a surface impoundment, an explanation of how 35 Ill. Adm. Code 724.330 will be complied with.

i) A waste management plan for hazardous waste numbers 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 35 Ill. Adm. Code 724.331. This submission must address the following items, as specified in that Section:

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.

j) Information on air emission control equipment, as required in Section 703.213.

BOARD NOTE: Derived from 40 CFR 270.17 (2002).

(Source: Amended at 27 Ill. Reg. 3496, effective February 14, 2003)