**Section 703.206 Land Treatment**

For a facility that uses land treatment to dispose of hazardous waste, except as otherwise provided in 35 Ill. Adm. Code 724.101, the Part B application must include the following:

a) A description of plans to conduct treatment demonstration as required under 35 Ill. Adm. Code 724.372. The description must include the following information:

1) The wastes for which the demonstration will be made and the potential hazardous constituents in the wastes;

2) The data sources to be used to make the demonstration (e.g., literature, laboratory data, field data, or operating data);

3) Any specific laboratory or field test that will be conducted, including the following:

A) the type of test (e.g., column leaching, degradation);

B) materials and methods, including analytical procedures;

C) expected time for completion;

D) characteristics of the unit that will be simulated in the demonstration, including treatment zone characteristics, climatic conditions and operating practices;

b) A description of a land treatment program, as required under 35 Ill. Adm. Code 724.371. This information must be submitted with the plans for the treatment demonstration, and updated following the treatment demonstration. The land treatment program must address the following items:

1) The wastes to be land treated;

2) Design measures and operating practices necessary to maximize treatment in accordance with 35 Ill. Adm. Code 724.373(a) including the following:

A) Waste application method and rate;

B) Measures to control soil pH;

C) Enhancement of microbial or chemical reactions; and

D) Control of moisture content;

3) Provisions of unsaturated zone monitoring, including the following:

A) Sampling equipment, procedures, and frequency;

B) Procedures for selecting sampling locations;

C) Analytical procedures;

D) Chain of custody control;

E) Procedures for establishing background values;

F) Statistical methods for interpreting results; and

G) The justification for any hazardous constituents recommended for selection as principal hazardous constituents, in accordance with the criteria for such selection in 35 Ill. Adm. Code 724.378(a);

4) A list of hazardous constituents reasonably expected to be in, or derived from, the wastes to be land treated based on waste analysis performed pursuant to 35 Ill. Adm. Code 724.113;

5) The proposed dimensions of the treatment zone;

c) A description of how the unit is or will be designed, constructed, operated and maintained in order to meet the requirements of 35 Ill. Adm. Code 724.373. This submission must address the following items:

1) Control of run-on;

2) Collection and control of run-off;

3) Minimization of run-off of hazardous constituents from the treatment zone;

4) Management of collection and holding facilities associated with run-on and run-off control systems;

5) Periodic inspection of the unit. This information should be included in the inspection plan submitted under Section 703.183(e); and

6) Control of wind dispersal of particulate matter, if applicable;

d) If food-chain crops are to be grown in or on the treatment zone of the land treatment unit, a description of how the demonstration required under 35 Ill. Adm. Code 724.376(a) will be conducted, including the following:

1) Characteristics of the food-chain crop for which the demonstration will be made;

2) Characteristics of the waste, treatment zone, and waste application method and rate to be used in the demonstration;

3) Procedures for crop growth, sample collection, sample analysis, and data evaluation; and

4) Characteristics of the comparison crop including the location and conditions under which it was or will be grown;

e) If food-chain crops are to be grown and cadmium is present in the land-treated waste, a description of how the requirements of 35 Ill. Adm. Code 724.376(b) will be complied with;

f) A description of the vegetative cover to be applied to closed portions of the facility and a plan for maintaining such cover during the post-closure care period, as required under 35 Ill. Adm. Code 724.380(a)(8) and (c)(2). This information should be included in the closure plan and, where applicable, the post-closure care plan submitted under Section 703.183(m);

g) If ignitable or reactive wastes will be placed in or on the treatment zone, an explanation of how the requirements of 35 Ill. Adm. Code 724.381 will be complied with;

h) If incompatible wastes or incompatible wastes and materials will be placed in or on the same treatment zone, an explanation of how 35 Ill. Adm. Code 724.382 will be complied with; and

i) A waste management plan for hazardous waste numbers F020, F021, F022, F023, F026, and F027 describing how a land treatment facility is or will be designed, constructed, operated, and maintained to meet the requirements of 35 Ill. Adm. Code 724.383. 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.

BOARD NOTE: Derived from 40 CFR 270.20 (2002).

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