

Appendix III

Data to be Furnished with Initial Report

I. The following information on the embankment, equipment and procedures will be submitted with the initial field control data report:

A. Embankment:

1. Typical plan and sections (if applicable, these may be copies extracted from plans and specifications).

2. Brief description of materials to be placed in the various zones.

B. Compaction Equipment:

1. For sheepsfoot rollers.

a. Make and model

b. Towed or self-propelled

c. Number, diameter, and length of drums

d. Base area, shape, and length of one tamping foot, number of feet per drum and per row, and number of rows

e. Roller weight empty and as used

f. Foot pressure

g. Type of cleaners and frame (rigid or oscillating frame)

h. Specified and actual maximum speed of travel during compaction

2. For pneumatic-tired rollers:

a. Make and model

b. Number, size, ply rating and spacing of tires

c. Roller width, weight (empty and as used) and tire pressure

d. Contact pressure (wheel load divided by contact area of tire)

e. Specified and actual maximum speed of travel during compaction.

3. For vibratory rollers:

a. Make and model

b. Towed or self-propelled

c. Number, diameter and length of drums

d. Static roller weight empty and with ballast

e. Dynamic pressure exerted

f. Vibrating frequency (report frequency of roller and rockfill within 2 feet of roller)

C. Summary of Test Procedures:

1. Method of correcting field and laboratory density and water content for material having plus 3/4" particle sizes.

2. Graphical presentation of compaction curves or other reference curves used for correlating field with laboratory density and water content.

3. Description of procedures for selecting appropriate laboratory maximum density and optimum water content for comparison with in-place data.

II. The following information on the instrumentation will be submitted with the initial field control data report:

A. Piezometers:

1. The type (e.g. USBR, Warlam, Hall, Casagrande, Wellpoint, etc.), tip dimensions and description of the component parts of the tip (e.g. size and type of porous stone, slot or screen size).

2. The type, wall thickness and inside diameter of pipe or tubing and method of joining sections.

3. The type, thickness, method of placement, gradation and top and bottom elevation of the filter surrounding the piezometer tip.

4. The type, thickness, method of placement and top and bottom elevations of the seal.

5. Type of gage and method of protection.

6. The type of surface protection, (e.g. shelter facilities, posts, etc.) date of installation, schedule of observations and problems encountered during installation and operation.

7. Plan and elevations showing location of piezometers.

B. Settlement Plates:

1. Description of settlement gage (e.g. dimensions, type, etc.) with a detailed drawing.

2. Type and size of riser pipe and method of joining sections.

3. Procedures for installation of instruments and obtaining measurements.

4. Plan and elevations showing locations of settlement plates.

C. Surface Reference Monuments:

1. Description of reference points (e.g. dimensions, type, depth of embedment, protection against damage, etc.) with a detailed drawing.

2. Description of bench marks.

3. Plan and elevations of reference points and bench marks.