CS-206 (10-17)

pennsylvania
DEPARTMENT OF TRANSPORTATION
www.penndot.gov

MINIMUM QUALITY CONTROL PLAN FOR NUCLEAR GAUGE COMPACTION TESTING

(Attach additional sheets as needed)

ECMS No._____, State Route (S.R.) _____, Section _____, County _____

I. ORGANIZATIONAL CHART

Personnel	Full Name and Phone Number	Responsibilities
A. Company Representative	_____	Oversees entire project
B. Project Superintendent	_____	Oversees fill construction operations
C. Project Foreman	_____	Oversees placement and compaction of material
D. Certified Nuclear Gauge Operator*	_____	Performs QC and acceptance compaction testing as specified in Pub 408, Sec. 206.3(a)
Operators Certification No.	_____	Expiration Date _____
E. Compaction Control	_____	Technical & Emergency contact Supervisor
F. Radiation Safety Officer (RSO)	_____	Emergency Contact
G. PADEP Phone number	_____	Emergency Notification

*If the Nuclear Gauge Operator is a 3rd party contractor, please provide the full company contact information below. Please use Section VI of this form to list alternative and/or additional Certified Nuclear Gauge Contractors and Operators that will perform QC testing on this project.

Company Name _____ Office Phone Number_____

Address _____

II. NUCLEAR GAUGE INFORMATION

Type	Model No.	Calibration Date

III. MATERIAL INFORMATION

Material Class	Dry Density, pcf	Optimum Moisture, %	Proctor Test Date

IV. EQUIPMENT LIST

MANUFACTURER

QUANTITY

A sufficient quantity and type of rollers and/or compaction equipment must be available and used in accordance with Pub 408, Section 206.3(b).

Pad Foot Roller _____ _____

Smooth Drum Vibratory Roller _____ _____

Other *(please specify below)*

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

[redacted] Embankment Equipment

[redacted]

1/11/2022

Compaction Acceptance Testing

- Rock embankment material will be placed in uniform horizontal layers not exceeding in depth the approximate average size of the largest rock, but no more than 36”.
- 206 Rock embankment material to be installed in 18" lifts.
- The material will be placed for the full width of the available fill area.
- Compaction of each lift will be determined on the bases of nonmovement of the material
- Compact until embankment does not rut under construction equipment/loaded triaxle (GWV 73,280 pounds).

Equipment

- A Cat CS56B Roller/Volvo SD100D (or equivalent) will be used to compact embankment material
  - Operating Weight: 25,346 LB / 23,100 lb
  - Static Linear Load: 166.5 lb/in / 155.95 lb/in
  - Vibratory Frequency – 30.5 Hz / 31.2-33.6 Hz
  - Centrifugal Force (min/max) – 31670/67600 lb / 46300/59300 lb