



REPORT ON COMPACTION DENSITY BY NUCLEAR METHOD-DEPARTMENT FORM

Fill Out Completely. Original to be retained with project records. Remit copy to District Office.

ECMS No.: _____
 SR – Section: _____
 District: _____
 County: _____
 Date: _____

Embankment Subgrade Pipe Backfill
 Other: _____

FILL MATERIAL: (Reference Pub. 408, Sec. 206)	
Material Source:	
Specific Gravity, SG:	
Passing 3/8 Sieve (%):	
Passing No. 200 Sieve (%):	
Material Type (Check one)	Soil: Type 1 Granular:
Maximum Proctor Density (pcf) *:	
Optimum Proctor Moisture (%) *:	
Required Min. Compaction (% Proctor):	
Required Min. Compaction (pcf):	

GAUGE IDENTIFICATION: (Reference PTM No. 418)	
Manufacturer:	
Model Number:	
Date of Annual Calibration:	
MONTHLY GAUGE OPERATING LIMITS (from Annual Calibration Report)	
Effective Month:	
Upper Limit Density Count:	
Lower Limit Density Count:	
Upper Limit Moisture Count:	
Lower Limit Moisture Count:	
DAILY GAUGE STANDARDIZATION: (Reference PTM No. 418)	
Standardization Date:	
Standard Density Count:	
Standard Moisture Count:	

TEST LOCATIONS: (Reference PTM No. 402)			
Test Identification Number:		Test Elevation (feet):	
Station:		Compacted Lift Height (inches):	
Offset:		Source Rod Position (inches) **::	
Final Subgrade Elevation (feet):		Test Time (start):	

VERIFICATION TEST		TEST RESULTS: (Reference PTM No. 402)					
Acceptance Test ID No.		Reading 1 (0°)	Reading 2 (90°)	Reading 3 (180°)	Reading 4 (270°)	Average	Meets Tolerances? (Y or N)***
Density Count (Shift + Counts)						-	-
Wet Density, WD (pcf)							
ΔWD from Average						-	-
Moisture Count (Shift + Counts)						-	-
Moisture, (pcf)						-	-
Dry Density, DD (pcf)							
Moisture, w (%)							
Δw (%) from Average						-	-
% of Proctor Density (%)							
Zero Air Voids (ZAV) Formula:		$\frac{62.4}{DD} - \frac{1}{SG} \geq w\%$			show calculation:		
ZAV Check:	Yes:		No:		Pass:		Fail:
Remarks:							
Name of Gauge Operator:					Cert. Number:		

* Use data as shown on applicable Form TR-4247
 ** For Backscatter Mode, enter 0.
 *** If final averages exceed tolerances, a new location is to be tested