

## Procedure Checklist

### FM 1-T238 Density of Soils In Place by the Nuclear Method

		P	F	N/A
1.	Does reference block have the same serial number as the nuclear gauge. Nuclear gauge kit has: Plate__ Drill Rod__ Extraction Tool__ Hammer__			
2.	Calibration date of Nuclear gauge.			
3.	Are Standard Density and Moisture counts maintained in the Gauge Diary.			
4.	Is the warm-up time allowed by the candidate within manufacturer's guidelines?			
5.	Are the standard counts obtained on at least 100 PCF material?			
6.	Is the gauge at least 10 feet away from large objects?			
7.	Is the gauge at least 30 feet away from other gauges?			
<b>Standard Density Count</b>				
8.	Today's Standard Density Count within Allowable Range?			
9.	Is today's Standard Density Count verified correctly by manual calculation?			
<b>Standard Moisture Count.</b>				
10.	Today's Standard Moisture Count within the Allowable Range?			
11.	Is today's tolerance for Standard Moisture Count verified correctly by manual calculation?			
12.	Did technician use correct counts?			
<b>Density Test</b>				
13.	Is the test site chosen at least 6 inches away from any vertical object?			
14.	Is the test site scraped and smooth?			
15.	Are voids on the test site filled with native fines, when greater than 1/8 in.?			
16.	Test hole depth correct?			
17.	Is the hole disturbed while extracting the drill rod?			
18.	Is the gauge indexed to the desired depth?			
19.	Is the gauge probe in contact with the correct wall of the hole?			
20.	Wet Density obtained?			
21.	Nuclear moisture content obtained when testing approved base materials (%M), if utilizing approved gauge?			
22.	Representative sample obtained correctly?			
23.	Representative sample placed in moisture proof container & lid closed?			

Remarks: \_\_\_\_\_ Comparison Criteria: **Dry Density ± 2 PCF Same Manufacturer**  
**Dry Density ± 3 PCF Different Manufacturer**

Date: \_\_\_\_\_ Technician: \_\_\_\_\_ IA Observer: \_\_\_\_\_

Technician's E-mail Address: \_\_\_\_\_

Employer's/ Supervisor's E-mail Address: \_\_\_\_\_