Procedure Checklist FM 1-T310 - In-Place Density of Soils and Soil Aggregates by Nuclear Methods

Evaluation Date:		IA Evaluator:
¹Qualification Area:		Technician Name:
		Technician's
² Evaluation Type:		Email:
Evaluation Type:		Supervisor's
		Name:
Evaluation District:	³Tech.	Supervisor's
	Type:	Email:

			Р	F	N/ A
General					
1	Warm-u	p time allowed by the technician is within manufacturer's guidelines.			
2	Standard	counts obtained on at least 100 PCF (1600 kg/m3) material.			
3	Gauge is	Gauge is at least 10 feet (3 meters) away from large objects.			
4	Gauge is	Gauge is at least 30 feet (9 meters) away from other gauges.			
Standard	Density Co	unt			
5	Today's S	Standard Density Count is within the allowable range.			
6	Today's	Today's Standard Density Count correctly verified by manual calculation.			
Standard	Density Co	unt			
7	F	Today's Standard Moisture Count is within the allowable range.			
8	For NDG's	Today's tolerance for Standard Moisture Count correctly verified by manual calculation.			
Density T	est			•	
9		chosen is at least 6 inches away from any vertical object(s).			
10	Test site	is scraped and smooth.			
11	Voids gre	eater than 1/8 inch at the test site were filled with native fines.			
12	Test hole	Test hole is at the correct depth.			
13	Test hole	Test hole was not disturbed during drill rod extraction.			
14	Gauge so	Gauge source rod is placed at the desired test depth.			
15	The NDG/L-NDG is capable of testing at odd test depths on a production LOT when the test requires odd test depths.				
16		The gauge is pulled gently in the direction that will bring the side of the source rod in firm contact with the side of the hole nearest the scaler.			
17	The appr	ropriate density was transferred to the database/datasheet.			
18	-	Using an approved gauge and base material, nuclear moisture content (%) is obtained.			
19	1 '	ntative moisture sample is obtained correctly when other means of moisture ment are required.			

Remarks:			

Notes:

ECI Level I, ECI Level

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2 IA Observation, IA Split, IA Split/IA Observation

IA, QC, QC/VT,

VT

Gauge Comparison

Criteria

Condition	Comparison Type	Manufacturer	Toleranc e	
Condition 1: When both gauges in the comparison	NDG to NDG	Same Manufacturer	2 lb/ft ³	
are Nuclear Density Gauges (NDG)	NDG to NDG	Different Manufacturer	3 lb/ft ³	
Condition 2: When one of	L-NDG to L- NDG	Same Manufacturer	2 lb/ft ³	
the gauges in the comparison is a Low-Activity Nuclear Density Gauge (L-	L-NDG to L- NDG	Different Manufacturer	3 lb/ft ³	
NDG)	NDG to L-NDG	Same/Differen t Mnfctr.	ט וט/וני	