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

Evaluation Date:		IA Evaluator:							
¹Qualification Area:		Technician Name:							
2-			Technician's Email:						
² Evaluation Type:			Supervisor's Name:	Supervisor's Name:					
Evaluation District: 3Tech. Type: Supervisor's Email:									
	,		,						
				[Р	F	N/A		
Part	cicipation				Г	•	IN/A		
1.	Technician particip	ated in evaluation (ted	chnician refused to participate ec	uals failure).					
Gen	eral								
2.	Warm-up time allow	wed by the technician	is within manufacturer's guidelin	es.					
3.	Standard counts obtained on at least 100 PCF (1600 kg/m³) material.								
4.	Gauge is at least 10 feet (3 meters) away from large objects.								
5.		0 feet (9 meters) away	y from other gauges.						
Sta	ndard Density Cou	nt					T		
6.	Today's Standard Density Count is within the allowable range.								
7.	Today's Standard Density Count correctly verified by manual calculation.								
Star		unt (for NDG's only)							
8.	Today's Standard Moisture Count is within the allowable range.								
9.	Today's tolerance for Standard Moisture Count correctly verified by manual calculation.								
	sity Test								
10.	Test site chosen is at least 6 inches away from any vertical object(s).								
11.	Test site is scraped and smooth.								
12.	Voids greater than 1/8 inch at the test site were filled with native fines.								
13.	Test hole is at the	correct depth.							
14.	Test hole was not	disturbed during drill ro	od extraction.						
15.	Gauge source rod	is placed at the desire	d test depth.						
16.		d gently in the directio	n that will bring the side of the so the scaler.	ource rod in firm					
17.	The appropriate de	ensity was transferred	to the database/datasheet.						
18.	Using an approved gauge and base material, nuclear moisture content (%) is obtained.								
19.	Representative moisture sample is obtained correctly when other means of moisture measurement are required.								
Rema	arks:						·		

Notes:

1 ECI Level I, ECI Level II 2 IA Observation, IA Split, IA Split/IA Observation 3 IA, QC, QC/VT, VT

Condition	Comparison Type	Manufacturer	Tolerance	
Condition 1: When both gauges in the comparison are	NDG to NDG	Same Manufacturer	2 lb/ft ³	
Nuclear Density Gauges (NDG)	NDG to NDG	Different Manufacturer	3 lb/ft ³	
Condition 2: When one of the	L-NDG to L- NDG	Same Manufacturer	2 lb/ft ³	
gauges in the comparison is a	L-NDG to L-	Different		
Low-Activity Nuclear Density	NDG	Manufacturer	3 lb/ft ³	
Gauge (L-NDG)	NDG to L-NDG	Same/Different Manufacturer.	3 10/11	