

<b>OMR-TM-158</b>  Rev. 07/25/11 Department of Transportation State of Georgia  <b>Nuclear Gauge Calibration          (12" Ring)</b>	<b>Nuclear Gauge Calibration to Graded Aggregate Base</b>  Project: _____ County: _____ Contract ID: _____ PI # _____ Prime Contractor: _____ Quarry: _____ Material: _____ Item: _____ Tested By: _____ Title: _____	Date ____/____/____ N/G # _____ Mode _____  <b>Density Standard</b> Count _____  <b>Moisture Standard</b> Count _____
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Maximum Dry Density: _____  Optimum Moisture _____	
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IN PLACE DATA (NUCLEAR GAUGE)	(1)	(2)	(3)
Sample No			
Station #			
Depth - Thickness			
Gauge Wet Density (PCF)**			
Density Offset			
Wet Density (Gauge Wet Density +/- Offset)			
Gauge Moisture Density (PCF)**			
Moisture Offset			
Moisture (PCF) (Gauge Moisture Density +/- Offset)			
Dry Density (Wet Density - Moisture PCF)			
% Moisture (Moisture PCF ÷ Dry Density)			

IN PLACE WET DENSITY (12" RING)	(1)	(2)	(3)
<b>Sand Density</b> _____			
Gross Wt. (Container and Sand)	_____ gms./lbs.	_____ gms./lbs.	_____ gms./lbs.
Final Wt. (Container / Bag)	_____ gms./lbs.	_____ gms./lbs.	_____ gms./lbs.
Wt. of Sand Used (Gross Wt - Final Wt.)	_____ gms./lbs.	_____ gms./lbs.	_____ gms./lbs.
Wt. of Wet Material from Hole (Include. Container)	_____ gms./lbs.	_____ gms./lbs.	_____ gms./lbs.
Wt. of Container / Bag	_____ gms./lbs.	_____ gms./lbs.	_____ gms./lbs.
Wt. of Wet Material from Hole (Wet Wt Fr. Hole - Container Wt)	_____ gms./lbs.	_____ gms./lbs.	_____ gms./lbs.
In-Place Wet Density (Wet Wt Fr. Hole x Sand Density ÷ Sand Used)	_____ PCF	_____ PCF	_____ PCF
In-Place Dry Density (Wt. Density ÷ % Moist. Content +100 x 100)	_____ PCF	_____ PCF	_____ PCF

IN-PLACE MOISTURE (FLAME DRY)	(1)	(2)	(3)
Wt. of Wet Sample	_____ gms./lbs.	_____ gms./lbs.	_____ gms./lbs.
Wt. of Dry Sample	_____ gms./lbs.	_____ gms./lbs.	_____ gms./lbs.
Wt. of Water (Wt. Wet Sample - Wt. Dry Sample)	_____ gms./lbs.	_____ gms./lbs.	_____ gms./lbs.
Moisture Content % (Wt. of Water ÷ Dry Sample x 100)	_____ %	_____ %	_____ %
Moisture Content PCF (Wet density - Dry density)	_____ PCF	_____ PCF	_____ PCF

<b>CALCULATION FOR DENSITY OFFSET</b>	<b>CALCULATION FOR MOISTURE OFFSET</b>
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<b>Avg. In-Place Wet Density (12" Ring)</b> _____ (A) <b>Avg. Nuclear Gauge Wet Density **</b> _____ (B)  <b>A - B = Density Offset</b> _____	<b>Avg. PCF (Flame Dry Moisture)</b> _____ (A) <b>Avg. N/G Moisture Density **</b> _____ (B)  <b>A - B = Moisture Offset</b> _____
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**Note:**  
 If (A) is higher than (B) offset will be a (+)  
 If (B) is higher than (A) offset will be a (-)