AASHTO T-312 GYRATORY SUPERPAVE COMPACTION

<u>Preparing and Determining the Density of Bituminous Mixture Test Specimens Compacted by the Superpave Gyratory Compactor</u>

		Trial 1	Trial 2
1)	Was the Weight of the Superpave sample determined before testing?		
_,	(Approx 4400-4700 grams, usually decided on during prepave conference)		'
2)	Describe the reheating process for gyratory samples before compaction.		
	(Sample probed, sample uniformly heated; once sample reaches		
3)	compaction temp, proceed with compaction) How long are molds heated before compaction?		
٥,	(30 minutes at compaction temp)		
<u>Op</u>	eration of the Pine Brovold Gyratory Superpave Compactor		
1)	Gyratory mold removed from the oven and set on a flat surface.		
2)	Gyratory mold seated into Pine Brovold machine (Mold seated with pegs slotted into the groove)		
3)	The bottom plate was removed from the oven and placed into a mold.		'
4)	The paper disk is seated into the mold, and a funnel is placed onto the mold.		
5)	The sample was removed from the oven and poured through a funnel into		
	mold-Care taken not to segregate; the sample poured into one lift.		
6)	The sample was leveled, the paper disk seated on top, and the top plate removed from the oven and seated on top of the paper disk.		
7)	The machine was closed and secured per the manufacturer's instructions.		
8)	Desired Gyrations set. Pressure (600kpa +/- 18) and angle verified (1.16 +/- 0.02 degrees internal angle)		
9)	The machine started, and the compaction process was completed.		
10)	Height recorded (115.0mm +/- 5.0)		
11)	The compacted sample was extruded from the compactor, moved to a flat surface, and allowed to cool.		
	(After extrusion, the sample may need time to cool before moving to a flat Surface)		
12)	Paper Disks were removed, plates were removed, and asphalt was wiped clean.		
13)	Plates and mold returned to the oven for reheating. (At least 5 min in the oven at compaction temp before reusing.		
	Recommended to use two sets of molds and plates)		
14)	Machine lubricated (as needed per manufacturer) Ram Lowered and parked in		
± - 7)	home position ready for next compaction.		
	Pass Y/N:		
	1 433 1/14.		