## IA Checklist T 30 Mechanical Analysis of Extracted Aggregate

Procedure		Р	F	NA
1	Determine mass of sample within specified tolerance. (0.1% of sample mass)			
2	Add ample amount of water to cover sample, and add wetting agent.			
3	Wash sample until wash water poured off sample is clear. Pour water over nested #10 or #16 & #200 sieve.			
4	Return material retained on nested sieves to the sample container. Flush sieves with water and take care not to lose any material.			
5	Dry sample to a constant mass, per T 255, at a temperature of 110 +/- 5° C (230 +/- 9° F) and determine the mass of the sample to the nearest 0.1%.			
6	Select sieves with suitable openings to furnish the information required by the specifications (JMF) covering the material to be tested. Nest the sieves in order of decreasing size of opening from top to bottom and place the sample, or a portion of the sample if it is to be sieved in more than one increment, on the top sieve.			
7	Agitate the sieves by a mechanical apparatus for a sufficient period, established by trial or checked by measurement of actual test sample, to meet the criteria for adequacy of sieving described in Section 7.7 of T 30. Continue sieving for a sufficient period and in such a manner that, after completion, not more than 0.5% by mass of the total sample passes any given sieve during 1 minute of hand sieving as described in Section 7.7 of T 30.			
8	Avoid overloading sieves. splitting sample into two or more portions, sieving each portion individually. Combine the masses of the several portions retained on a specific sieve before calculating the percentage of the sample on the sieve if, applicable What means are used to insure sieves aren't blinded? (formula, weights, written down, etc.)			
9	Determine the mass of material retained on each sieve to the nearest 0.1%			
10	The mass of dry material passing the #200 sieve by dry sieving shall be added to the mass removed by washing, and if applicable, the mass of mineral matter in the asphalt binder, in order to obtain the total passing the #200 sieve. The masses of the fractions retained on various sieves and the total passing the #200 sieve shall be converted to percentages by dividing each by the total mass of the aggregate in the HMA from Section 7.1 of T 30			
11	Calculate the percentages passing each sieve to the nearest whole number except on the #200 sieve which will be reported to the nearest 0.1%.			
12	Total the mass of all individual increments and check that it is within 0.2% of the mass of the original sample.			

## Remarks: