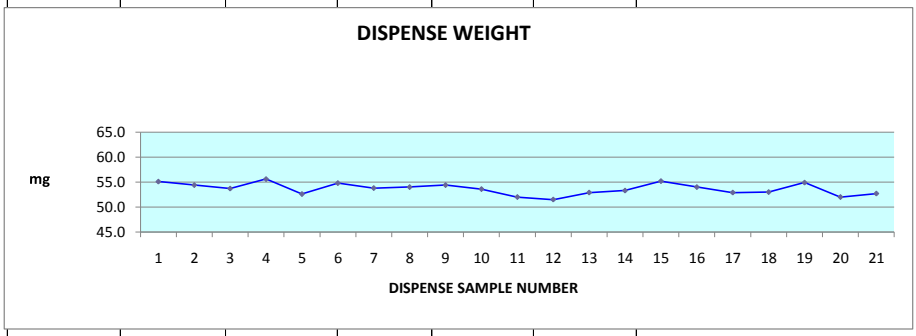
Customer		Contact		Date	16-Aug-10

					Date		Test 2		
Material	pNPP, disodium, hexhydrate	Material condition		.5 mm	Bulk Density (gm/cc)		.1 mm	Bulk Density (gm/cc)	
		Paticulate size	Fines	From Table	Measured	Tap Density	From Table	Measured	Tap Density
Desired Sample size	55 mg tgt. wt.	Crystals >50 micron	>1%	NA	0.8	0.85	NA		
Desired accuracy	+/-10% Range= 50 - 60 mg (+/- 5 mg)		rh	53%					
Pipette Size	0.125 dia.	Filter Cup:	Filter cup mesh	10 micron					

Micrometer setting		Sample weight MG	Control unit settings Vacuum (in hg)	Air (psi)
		54.80	12	10
0.40	Set	**55.10**		
		54.40		
		53.70		
		55.60		
		52.60		
		54.80		
		53.80		
		54.00		
		54.40		
		53.60		
		52.00		
		51.50		
		52.90		
		53.30		
		55.20		
		54.00		
		52.90		
		53.00		
		54.90		
		52.00		
		52.70		



Cycle time	Aspirate	Level	Dispense	total
(sec)	2	0	1	3

53.6381	Av	
53.6264	Mean	
1.1474	Std Dev	
55.6	High	Range
52.0	Low	
6.47	%	

Notes/observations

pNPP, disodium, hexhydrate

1a. Free flowing white crystals, easily aspirated and dispensed. No issues dispensing into the customers vials.
1b. Set up and calibration are straight forward.
1c. Requires relativly high air pressure to eject sample from the pipette due to the crystalline shape compacting.
1d. Use of the leveling plate is not recommended. Tip pressure comacts crystals impeding the tip discharge. Instead, the tip was tapped to remove excess powder proud of the tip orifice.
2.0 Standard 0.125 dia tip used for testing due to small bottle neck dia.
3.0 **Aerosol:** No aerosol or loose crystals were observed during or after dispense.
4.0 Under normal laboratory conditions, periodic cleaning, based on humidity. Tip/filter cleaning and changeover is <5 minutes.

Summary: Easy material to pipette, even at the small dispense weight. Dispense weight can be normalized by brushing the excess powder proud of the tip orifice