

No. 471 By DOS

March 1, 1988

TO:

Product Acceptance Committee

FROM:

F. M. Lockamy

RE: Confidence Intervals About Quality Audit Data

T. L. Hickman has developed confidence intervals around the Quality Audit data collected for the January CPT for SP-1. This reasonably approximates the degree of accuracy of estimating the product performance on a weekly basis when we begin production and QA begins routine monitoring. These confidence intervals represent a 95% confidence that we know the product mean within the bounds shown.

Loaded Substrate

% Nicotine		±	0.01%
Total Sugar		±	0.13%
Moisture	•	±	0.17%
PH		±	0.03
B-3		+	1.46%

Filled Capsules

Weight PD	± 0.001 g ± 0.30 m	
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Poly Filters

Weight	± 0.006 gm	n
Size	± 0.01 mm	n
PD	± 3.0 mm	1 H ₂ 0

GF Rods

Weight	± 0.	003	gm
Size	+ 0.	02	mm

Tobacco Plugs

Weight Size PD	± 0.006 gm ± 0.02 mm ± 1.7 mm H	2 ⁰

M.E.P.'s

Weight	±	0.001	gm
Size	±	0.01	mm

Finished Products

Weight	± 0.001	- ,	
Size	± 0.01	mm	
PD	± 0.6		H ₂ 0
Bypass	± 1.7	ક્ર	_
WTPM	± 0.5	mg	
Glyc	± 0.5	mg	
Nic	± 0.015	ug	
CO	± 0.2	mg	

This data should be used in determining the level of certainty desired that product entering the distribution system is meeting the specifications. If the PAC feels that our confidence needs boosted beyond what is shown, this can be done.

Please let me know if you have any questions.

F. M. Lockamy

FML: SCS

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