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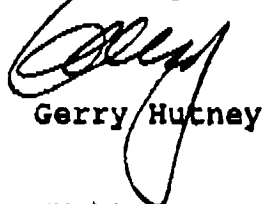
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Date: 20 September 1990
To: Katie Burchette
Location: R.J. Reynolds
From: Gerry Hutney
Number of Pages: 4

Japan Tobacco Inc. sent to us the attached questions in preparation of the upcoming meeting.

Looking forward to seeing you next week.

Best regards,



Gerry Hutney

GH:kt
Attachment

Questionnaire 1**1 Questions related to Stemery (Leaf Processing Factory)****1 Insects Control within the Factory**

- (1) The effectiveness of KABAT treatment regarding prevention of pest damage in leaf processing factories.
- (2) Decreasing rate of fumigation and/or smoking frequencies within the leaf processing factory since adopting KABAT treatment.
- (3) Please tell us what kinds of chemical used for fumigation and smoking (if possible).
- (4) Have you taken any actions for pest extermination in operation lines (such as beetles and moth in ducts and machinery surroundings).
What action did you take?
Is it possible to expect such effects by IGR, likely of DIANEX?
- (5) In cases such as when you detect pest in leaf prior to processing, do you smoke the leaf first and then perform KABAT treatment?

2 Questions related to KABAT adding procedure

- (1) Do you perform KABAT treatment to all leaves? If not, what is the criterion for selecting certain types of leaves to be given KABAT?
- (2) In where place of the leaf processing line do you add KABAT? Are there any problems with application of KABAT in this place?
- (3) Have you considered adding KABAT at other places? If so, where was it, and what problems arose from that?
- (4) How do you operate the amount of KABAT by applicator? Do you adjust it by amount of flowing leaves on processing line, or by the measured amount of methoprene on the leaves right after processing?
- (5) Does the amount of KABAT differ according to the leaf types? If so, what is grounds for that?
- (6) What is the dilution proportion of KABAT against water? How degree is the effect of KABAT treatment to the leaf moisture in such case?
- (7) Specific considerations taken for assuring the uniformity of KABAT added?

3 Questions related to KABAT applicator

- (1) There are three types of applicator but which type do you recommend most?
- (2) Please introduce us the name of the manufacturer, machine type, price, and whom to request catalogues.
- (3) If you have the specification information on these three types of applicator (such as nozzle type, nozzle diameter, pump type, capacity meter, spray type etc), we would like to obtain these information.

4 Questions Related to Applicators in Use

- (1) How are the volume of flowing KABAT and water being controlled?
- (2) What are the variants of KABAT application?
- (3) What part of the applicator causes trouble (e.g. nozzle problems, pump problems, etc.) most frequently and how often does that occur?
- (4) Do you always keep a spare applicator?
- (5) Is it necessary to cleanse the remaining KABAT within the pipes and applicator each time immediately after use?
- (6) What are the major parts of the applicator in need of maintenance services?

5 Questions Related to Analysis of Methprene Applied

- (1) What are the methods taken for measuring methprene?
- (2) How long does it take to measure, and what is its accuracy?
- (3) About sampling
From part of the process do you take the samples?
Number of samples taken?
What is the sampling interval before packing?

II Questions Related to Cigarette Factories (Including Sheet and Puff Factories)

- (1) Is KABAT used for sheet tobacco leaves and puff tobacco leaves?
- (2) Is the effectiveness of KABAT equal to that of fumigation in the tobacco factory? Does the monitoring data support this?
- (3) Does KABAT actually decrease the rate of product claims regarding pest damages?

- (4) Does the KABAT treatment fully replace the fumigation and/or smoking treatment within the factory?
- (5) Have you taken any actions for pest extermination in operation lines (such as beetles and moth in ducts and machinery surroundings).

III Questions Related to DIANEX

- (1) What is the effect of DIANEX in respect to the generation rate of beetles and moths in the factory?
- (2) Is it possible to use DIANEX in ducts? If possible, how is it done?
- (3) What is the concentration rate of DIANEX, and what is the average amount of DIANEX application?
- (4) Have you ever used KABAT in place of DIANEX? If so, what was its result?
- (5) Are DIANEX absorbed through the skins even in eggs and larvae stage?
- (6) Is there any difference in effectiveness between DIANEX given after cleaning procedure and DIANEX given prior to cleaning procedure?