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BATCo document for Province of British Columbia 5 November 1999

CONFIDENTIAL

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RESEARCH PLANNING

QUARTERLY REPORT
APRIL - JUNE, 1969

PROJECT JANUS

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GENERAL

Dr. Miedreich, the leader of the Project JANUS team at Battelle, left Frankfurt at Easter, 1969. His departure necessitated a degree of reorganisation of the staff at Battelle. Dr. Hofmann has taken over as the leader of the team, and has overall responsibility for the Project. Dr. Kiendl is responsible for the skin-painting programme (long-term tests) and Dr. Kramer has joined the team to assist Dr. Konigsmann with the pathology. Hr. Militzer will continue to operate the Hyperplasia test under the direction of Dr. Hofmann, and work on the ciliastasis tests has been terminated.

The animal supplier, ASL Ltd., has experienced an outbreak of Salmonella montevideo in his mouse colony. To preclude any possibility of introducing this disease into the Battelle animal house, a ban has been imposed on receiving any animals from ASL Ltd. This ban, which should only last a few weeks, has led to the cancellation of the June Hyperplasia tests, but, if the disease cannot be eradicated quickly, may delay the start of Experiment B8.

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LONG-TERM TESTS

No new experiments were started during this quarter. The next experiment, (Experiment B8) is scheduled to start in September and the manufacture of the cigarettes is in hand. Cigarettes containing I-308 and X-PCL-5 are involved in this experiment.

The latest results from the current experiments are summarised in Table I.

Although there are no tumour-free mice still alive in Experiments B0 and B1, the histology will not be completed for several months. The feasibility of transcribing the data from the mouse record cards onto computer cards is being examined. In view of the large mass of information which is recorded in a long-term experiment, it may be advisable to use a computer for information retrieval and the assistance of Management Services Department is being sought. From a consideration of tumour-bearing animals, the indications from the results are:

(a) The specific activity of condensate is decreased as the volume of the puff is increased (Experiment B1).

(b) The activities of the condensate are in the order
Cigarette B3 < Cigarette B2 < Cigarette B0

Handwritten notes:
/ PCL
/ V...
/ English
C...
Laminar

Handwritten notes:
L...
C...

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B0 "Control" - similar to the negative Test
 B1 Puff vol of range
 B2 Viscosity
 B3 PCL + 1.5%

TABLE I

Experiments B0-B3 - LONG-TERM TESTS

ΔP = no of new mice with tumours per 100 weeks painted

(Probable) Tumorigenic Index

	N_H	$\Sigma \Delta P$	$\frac{\Sigma \Delta P}{\Sigma N_H}$	PTI
<u>152 weeks</u>				
<u>Control</u> : unpainted	0	0	0	0
solvent painted	3	0	0	0
<u>Experiment B0 :</u>				
25 mg	0	110	228	228
50 mg	0	178	495	495
75 mg	0	127	476	476
<u>136 weeks</u>				
<u>Experiment B1 :</u>				
10 ml	0	131	581	581
25 ml	0	172	524	524
35 ml (ex B0)	0	178	495	495
50 ml	0	168	475	475
<u>124 weeks</u>				
<u>Experiment B2 :</u>				
25 mg	20 (8%)	83	151	164
50 mg	3 (2%)	181	439	442
75 mg	0	179	480	480
<u>112 weeks</u>				
<u>Experiment B3 (PCL) :</u>				
25 mg	77 (31%)	27	49	70
50 mg	21 (8%)	133	267	291
75 mg	17 (7%)	162	352	374

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Experiment B4 (50% C35)

A comparison with Experiment B3, both at 76 weeks, is shown in Table II.

At the present time, therefore, there is an indication that the activity of the condensate from PCL is less than that of the condensate from a blend of the "equivalent starting tobaccos."

*|| 1.01
1.01*

Experiment B5

*Control Check
B0, B2, B3 & B0 at 3 puffs/min*

Comparison with the earlier experiments, all at 76 weeks, is shown in Table III.

Whereas the B0 and B3 results are in reasonable agreement with those from the earlier experiments, there is at present a divergence between the current and previous 32 results. There is no indication from Experiment B5 that changing from one puff per minute to three puffs per minute has a significant effect on the activity of the condensate.

*|| LA9
1.01*

Experiment B6/B7

*cuts per inch
and yeast-kefled
CN10 & Laminar*

These experiments have been running for 32 weeks, and, although tumour-bearing animals are beginning to appear, it is too early to draw any conclusions.

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TABLE II
LONG-TERM TESTS

	B4			B3		
	N_H	$\Sigma\Delta P$	$\frac{\Sigma\Delta P}{\Sigma N_H}$	N_H	$\Sigma\Delta P$	$\frac{\Sigma\Delta P}{\Sigma N_H}$
25 mg	183	15	34	193	4	10
50 mg	109	92	234	159	53	123
75 mg	83	115	313	127	79	193

TABLE III
LONG-TERM TESTS

	Current			Previous		
	N_H	$\Sigma\Delta P$	$\frac{\Sigma\Delta P}{\Sigma N_H}$	N_H	$\Sigma\Delta P$	$\frac{\Sigma\Delta P}{\Sigma N_H}$
B0	32	144	453	54	136	398
B2	69	144	418	96	112	297
B3	146	55	134	159	53	123
B0 triple	36	143	459	-	-	-

B1

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HYPERPLASIA TEST

The results from the January and February experiments were received this quarter.

In the January experiments, Battelle examined a series of cigarettes from Montreal: (See Table IVa).

- (a) RICHMOND
- (b) RICHMOND cigarette rod plus acetate filter. The acetate filter was a close match (pressure drop and filtration efficiency) to the Strickman filter.
- (c) VISCOUNT
- (d) VISCOUNT with the vents of the filter sealed with "Sellotape."
- (e) RANSOM.

Battelle examined four samples from Louisville in the February experiments: (See Table IVb).

The results from the March experiments, in which a series of cigarettes containing PCL were examined, are not yet available.

A gap was inserted into the programme for the month of May. A large number of skin-sections requiring evaluation under the microscope had accumulated and Battelle requested time to recover the situation.

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TABLE IVa

HYPERPLASIA TEST

	Area Activity Rating (micron-days)	
	Observed	Normalised on Cigarette 80
Cigarette 80	100	100
RICHMOND	96	88
RICHMOND + acetate	92	85
VISCOUNT	111	102
VISCOUNT + Sellotape	115	106
RANSOM	88	81

hyperplasia

TABLE IVb

HYPERPLASIA TEST

	Area Activity Rating (micron-days)	
	Observed	Normalised on Cigarette 80
Cigarette 80	98	100
KOOL	86	88
KOOL + WTS	88	89
VICEROY	92	94
VICEROY + WTS	96	98

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GOBLET CELL TEST

Battelle have been asked to produce a formal proposal for further work on a goblet cell test. The latest information from Huntingdon on their attempts to develop a test procedure is not encouraging, and it would seem desirable to wait for further information from Huntingdon before taking a decision on whether or not to undertake further work at Battelle.

CIA/SEW
24th June, 1969

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