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23 Jan 89.

Product Innovation Projects - 1989

ALH information requirement: 20 Jan 89.

AMTECH:

Description: Explore potential of the APV-Baker food extruder for effecting Maillard reactions more rapidly than other methods, or more uniformly.

Status: Work commenced 1988. Limited by lack of methodology in R&D for measuring D₉₀'s and ACP reluctance to allow panel testing due to HCA levels.

Completion: Plan to match RCB in Belmont in 1989. Other actions may follow.

FLITE:

Description: Evaluate benefits of introducing flavors/essences via extruded material eg. more controlled release or more uniform application.

Status: Work commenced 1988. Established fundamentals of effects on sheet formation. Evaluated a menthol option in Taweeb.

Completion: Plan to use menthol with release agents in 1989. Also try to reduce stem hardness 1989. Other actions may follow.

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TULIP:

Description: Develop versions of hybrid products combining standard and premier style benefits for ultra-low delivery products with taste.

Status: New project, exploratory in 1989. Begin with resurrection of Cadavac style.

Completion: 1990/91

LEAST:

Description: Evaluation of extruded inorganic materials as a means of reducing total sidestream smoke, and as a building block for future novel products.

Status: Began 1988. Examples of materials containing high levels of chalk, alumina, etc. sent to ARBUS programme and measured internally. Findings much as predicted, reducing weight burned.

Completion: 1991 or earlier depending on value of materials in cigarette design and construction. ARBUS involvement?

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DEER :

Description : Reconstituted waste tobacco from food extrusion technology.

Status : Commercial introduction in Canada 1989, also possibly Singapore, Malaysia, Switzerland

Completion : R&D work was restricted to supporting commercial ventures through offer processing for OpCos. plus advice, tech transfer.

ALLOW :

Description : Produce an efficient, low waste cigarette of 14 mm circumference, 5 mg / 0.4 mg delivery

Status : New project for 1989. First samples made.

Completion : Exploratory work, design 1989. Commercial programme would follow if feasible.

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LANCE :

Description : Method of construction for sequential structured cigarettes

Status : Commenced in 1988. Technology design and construction underway

Completion : 1990/91. Depends on whether technique proves successful. Could be useful for AIRBUS - otherwise for structured rods.

TIP TOE :

Description : Evaluation of Jacob Mohr bi-component PE/PP tow as a cheaper filter material

Status : Commenced in 1988. First samples awaited

Completion : Need to review at end of 1989

DEER :

Description : Development of a cheap filter based on PP/starch, CA-waste /starch using food extruder and DEER technology

Status : Delayed for two years, now

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underway slowly

Completion: Dependant on extruder availability
1990/91

VAGABOND:

Description: Explore with Courtaulds the commercial feasibility of acetylating viscose to produce a more acceptable filter fibre material from viscose

Status: Initial labwork completed
1988: Approaches to Courtaulds underway

Completion: 1990. Feasibility stages

EPCOT:

Description: Produce a foamed extruded smokeable product from DBP technology

Status: Commenced in 1989. First tentative samples made and analysed. Samples circulated to restricted group. Current search for suitable equipment to allow sizing, conveying etc

Completion: Viability and challenge identification during 1989. First product 1990/91. Building block design 1992?

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THERMOS :

Description : Evaluate the potential for using carbon/starch or carbon/binder mixtures extruded with the DSB technology, as a means of combustion control or modification in cigarette design

Status : Commenced 1989. Samples sent to AIRBUS programme Dec 89. Internal evaluation underway.

Completion : Feasibility 1989. Product applications to follow. AIRBUS involvement?

HELSTON :

Description : Review opportunities for using moulded decorative effects on tipping etc to gain product appeal.

Status : Initial work completed. Samples under review by BAT(UK+E)

Completion : Dependant on interest otherwise 1989.

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GILT :

Description : Develop recipe and technology of DSR process with aim of increasing expansion, reducing starch and binder content.

Status : Commence 1989

Completion : 1990

CURBOARD :

Description : Match market aim to existing, innovative technology capability eg structured cigarettes

Status : Commenced 1988. At discussion stage. Up to eight (8) projects announced.

Completion : Depends on inputs.

ADAM :

Description : Evaluation of by-product of sugar extraction from beet as filter materials or for use in extrusion programmes.

Status : Commence 1989

Completion : 1989

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