

PEA

BROWN & WILLIAMSON TOBACCO CORPORATION

Development Center Work Request

DATE: July 21, 1988
REQUESTED BY: B. B. Chakraborty
PROJECT NO.: 05-981

JUL 22 1988

B. A. B.

Copy Without Attachments:

TO: J. L. Barnett
COPIES: B. F. Wingler
B. A. Bandy (3)
D. L. Scholten (2)
P. A. Dearing

M. L. Reynolds
T. F. Riehl
J. G. Esterle
D. L. Gordon
A. McMurtrie

PURPOSE: KENT IMPROVEMENT

DESCRIPTION (Test Outline And/Or Special Instructions):

Enclosed are specifications for seven samples to be made from two primaries. Within one group of primary, the difference between the samples is only in the top flavor.

For both the primaries, EBR has been divided into two portions; one portion designated EBRT, in the blend formula, is for top dressing with redried, reordered burley and the second portion EBRF is for casing with the flue-cured, oriental, and CPCL portion of the blend. This is necessary to make the product compatible with Macon primary.

Please flavor tobacco for the sample 981329 enough for making one more sample with a different cigarette design. A separate work request is being sent for that sample.

BBC
B. B. C.

BBC/sek/0562C

SCOPE OF WORK (CHECK APPROPRIATE CATEGORIES)

- | | |
|---|---|
| <input type="checkbox"/> DOMESTIC PRODUCT | <input type="checkbox"/> NEW PRODUCT |
| <input checked="" type="checkbox"/> INTERNATIONAL PRODUCT | <input checked="" type="checkbox"/> PRESENT PRODUCT |
| <input type="checkbox"/> PROCESS | <input type="checkbox"/> CPT |
| <input type="checkbox"/> EXPLORATORY | <input checked="" type="checkbox"/> INTERNAL |

DEVELOPMENT CENTER PROJECT NO.: 0598100
SCHEDULED: _____
COMPLETED: _____

620759686

BROWN & WILLIAMSON TOBACCO CORPORATION
 ** DEVELOPMENT CENTER WORK REQUEST **

CC: F. E. ATKINS
 P. A. BEARING
 B. CHAKRABORTY

Date Requested: 07/20/88
 Approved by: _____
 Requestor Project #: 05-981
 Requestor: B. CHAKRABORTY
 Designer: B. CHAKRABORTY

Cigarette Description: MOD BL/DAP B CASING
 Requestor #: _____
 Date Manufactured: 8-3-88
 Pilot Plant Project #: 0598100
 Purpose: KENT KS IMPROVEMENT SAMPLES

Labdata Number: _____
 Current Brand: **KENT**
 Cigarette Code: 981323
 Analysis Code: 981323
 Masked Analysis Code: _____
 End Pack Code: _____
 Tobacco Code: 981323
 Blend Designation: NGLF-80L Added Shorts: YES
 Primary Location (N/DC): DC
 Fab Location (N/DC): DC

QUANTITY
 Stock Room Quantity: CTMS
 Distribution Quantity: 30 CTMS
 Market Research Quantity: CTM
 Other Dept. Name: _____
 Other Dept. Quantity: _____

CASING/FLAVORING
 Redried (Y/N): Y
 Burley Casing: XCF-1983 XCF-1984
 Flue Cured Casing: XCF-2009
 Top Dressing: XCF-2008
 Flavor: XFF-NIL
 Operation Number: 05981002
 Date Cased: 7-28-88
 Menthol Retention (%): _____
 Moisture Content (%): 13.00
 Menthol Loc: Flavor Loc: D

TIPPING/FILTER
 Supplier: _____
 COLOR: WHITE
 Length: 26
 Perf. Type: NHPAL
 DISTANCE FROM M.E. (mm): 15 (T)
 Permeability (c): 550 (T)
 Off Line Laser (Y/N): N
 Basis Number (g/n2): _____
 Tipping Adhesive: 3908
 Bobbin Number: _____
 Filter Length: 21
 Tip Pressure Drop: 2.80
 VENTILATION RATE (%): 18.000 (T) (A)
 On Line Laser Vent: (T) (A)
 # of Lines: _____
 Holes / Inch: _____
 Mask Width: _____
 Mask Color: _____

TE 52-MA-1X
 TOB 02489-664
 (A) # 002
 (A) 464

FILTER ROD
 Material: _____
 Tow Item: FT-107
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.50
 PRESSURE DROP: 11.20 (T) (A)
 Plasticizer: 7% T/U 7.0 (%)
 Plug Wrap: KC-65M2
 P.W. Porosity (c): 6500
 Anchor Lines: _____

CIGARETTE
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.8 (T) (A)
 Maker Speed: 2500
 Trim Check: 21%
 End Stability (g/cc): 17

PACKAGING
 Label Type: HONGKONG
 Closure: GOLD
 Overwrap: FILM
 Tear Tape: GOLD
 Carton Type: HONGKONG

TOBACCO SECTION
 Length (mm): 63
 TOBACCO WEIGHT (mg): 771 (T) (A)
 Density (mg/cc): 250 (T) (A)

CIGARETTE PAPER
 Supplier: _____
 GRADE: E-75J
 Permeability: 47
 Burn Additive (type/): CITRATE 0.91

NON-TOBACCO WEIGHTS
 Avg. Rod Weight: 138
 Seam and Paper Weight: 44
 Tipping Weight: 32
 Weight / 100 Cigs.: 985
 991

Special Instructions:
 ADJUST TIPPING TO ACHIEVE TARGET VENT
 AND "LOW TO MIDDLE" TAR BAND

PACKAGING TO BE PLAIN WHITE WITH HONG KONG WARNING

Bob
 620759687

BROWN & WILLIAMSON TOBACCO CORPORATION
 ** DEVELOPMENT CENTER WORK REQUEST **

CC: P. E. Atkins
 P. A. Dearing
 B. CHAKRABORTY

Date Requested: 07/20/88
 Approved by: _____
 Requestor Project #: 05-981
 Requestor: B. CHAKRABORTY
 Designer: B. CHAKRABORTY
 Cigarette Description: MOD. BL/DAP B. CASING
 Requestor #: _____
 Date Manufactured: 8-3-88
 Pilot Plant Project #: _____
 Purpose: KENT KS IMPROVEMENT SAMPLES

Labdata Number:
 Current Brand: **KENT**
 Cigarette Code: 981324
 Analysis Code: 981324
 Masked Analysis Code:
 End Pack Code:
 Tobacco Code: **981324F**
 Blend Designation: MSLF-80L Added Shorts: YES
 Primary Location (N/DC): DC
 Fab Location (N/DC): DC

****QUANTITY****
 Stock Room Quantity: CTNS
 Distribution Quantity: 30 CTNS
 Market Research Quantity: CTN
 Other Dept. Name:
 Other Dept. Quantity:

****CASING/FLAVORING****
 Redried (Y/N): Y
 Burley Casing: XCF-1983 XCF-1984
 Flue Cured Casing: XCF-2009
 Top Dressing: XCF-2008
 Flavor: XFF-545
 Operation Number: **05981002**
 Date Cased: **7-28-88**
 Menthol Retention (%):
 Moisture Content (%): 13.00
 Menthol Loc: Flavor Loc: D

****TIPPING/FILTER****
 Supplier:
 COLOR: WHITE
 Length: 26
 Perf. Type: MNP4L
 DISTANCE FROM M.E. (mm): 15 (T)
 Permeability (c): 550 (T)
 Off Line Laser (Y/N): N
 Basis Number (g/m²):
 Tipping Adhesive: **3908**
 Bobbin Number:
 Filter Length: 21
 Tip Pressure Drop: 2.80
 VENTILATION RATE (%): 18.000 (T) (A)
 On Line Laser Vent: (T) (A)
 # of Lines:
 Holes / Inch:
 Mask Width:
 Mask Color:

TE 50-M2-15
To a 02489-664
(A) #002
(A)

****FILTER ROD****
 Material:
 Tow Item: FT-107
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.50
 PRESSURE DROP: 11.20 (T) (A)
 Plasticizer: 7% T/U 7.0 (Z)
 Plug Wrap: KC-65M2
 P.M. Porosity (c): 6500
 Anchor Lines:

****CIGARETTE****
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.8 (T) (A)
 Maker Speed: **2500**
 Trin Check: **21%**
 End Stability (g/cc): **18**

****PACKAGING****
 Label Type: HONGKONG
 Closure: GOLD
 Overwrap: FILM
 Tear Tape: GOLD
 Carton Type: HONGKONG

****TOBACCO SECTION****
 Length (mm): 63
 TOBACCO WEIGHT (mg): 771 (T) (A)
 Density (mg/cc): 250 (T) (A)

****CIGARETTE PAPER****
 Supplier:
 GRADE: E-753
 Permeability: 47
 Burn Additive (type/): CITRATE 0.91

****NON-TOBACCO WEIGHTS****
 Avg. Rod Weight: **138**
 Seam and Paper Weight: **44**
 Tipping Weight: **32**
 Weight / 100 Cigts.: **985**
991

Special Instructions:
 ADJUST TIPPING TO ACHIEVE TARGET VENT
 AND "LOW TO MIDDLE" TAR BAND

PACKAGING TO BE PLAIN WHITE WITH HONG KONG MARKING

620759688

BROWN & WILLIAMSON TOBACCO CORPORATION
 ** DEVELOPMENT CENTER WORK REQUEST **

CC: P. E. Atkins
 P. A. Dearing
 B. CHAKRABORTY

Date Requested: 07/20/88
 Approved by: _____
 Requestor Project #: 05-981
 Requestor: B. CHAKRABORTY
 Designer: B. CHAKRABORTY

Cigarette Description: ROB. BL/DAP B. CASING
 Requestor #: _____
 Date Manufactured: 2-3-88
 Pilot Plant Project #: _____
 Purpose: KENT KS IMPROVEMENT SAMPLES

Labdata Number: _____
 Current Brand: **KENT**
 Cigarette Code: 981325
 Analysis Code: 981325
 Masked Analysis Code: _____
 End Pack Code: _____
 Tobacco Code: 981325F
 Blend Designation: MGLF-80L Added Shorts: YES
 Primary Location (M/DC): DC
 Fab Location (M/DC): DC

QUANTITY
 Stock Room Quantity: CTMS
 Distribution Quantity: 30 CTMS
 Market Research Quantity: CTM
 Other Dept. Name: _____
 Other Dept. Quantity: _____

CASING/FLAVORING
 Redried (Y/N): Y
 Burley Casing: KCF-1983 XCF-1984
 Flue Cured Casing: KCF-2009
 Top Dressing: KCF-2008
 Flavor: XFF-546
 Operation Number: 05981002
 Date Cased: 7-28-88
 Menthol Retention (%): _____
 Moisture Content (%): 13.00
 Menthol Loc: Flavor Loc: D

TIPPING/FILTER
 Supplier: _____
 COLOR: WHITE
 Length: 26 664C
 Perf. Type: KNPAL
 DISTANCE FROM N.E. (mm): 15 (T) (A)
 Permeability (c): 550 (T) (A) 664
 Off Line Laser (Y/N): N
 Basis Number (g/m2): _____
 Tipping Adhesive: 3908
 Bobbin Number: 002
 Filter Length: 21
 Tip Pressure Drop: 2.80
 VENTILATION RATE (%): 18.000 (T) (A)
 On Line Laser Vent: (T) (A)

FILTER ROD
 Material: _____
 Tow Item: FT-107
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.50
 PRESSURE DROP: 11.20 (T) (A)
 Plasticizer: 7% T/U 7.0 (%)
 Plug Wrap: KC-65M2
 P.W. Porosity (c): 6500
 Anchor Lines: _____

CIGARETTE
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.8 (T) (A)
 Maker Speed: 2500
 Trin Check: 2290
 End Stability (g/cc): 16

PACKAGING
 Label Type: HONGKONG
 Closure: GOLD
 Overwrap: FILM
 Tear Tape: GOLD
 Carton Type: HONGKONG

TOBACCO SECTION
 Length (mm): 63
 TOBACCO WEIGHT (mg): 771 (T) (A)
 Density(mg/cc): 250 (T) (A)

CIGARETTE PAPER
 Supplier: _____
 GRADE: E-753
 Permeability: 47
 Burn Additive (type%): CITRATE 0.91

NON-TOBACCO WEIGHTS
 Avg. Rod Weight: 138
 Seam and Paper Weight: 44
 Tipping Weight: 32
 Weight / 100 Cigts.: 985
 991

Special Instructions:
 ADJUST TIPPING TO ACHIEVE TARGET VENT
 AND "LOW TO MIDDLE" TAR BAND

PACKAGING TO BE PLAIN WHITE WITH HONG KONG MARKING

620759689

BROWN & WILLIAMSON TOBACCO CORPORATION
 ** DEVELOPMENT CENTER WORK REQUEST **

CC: P. E. Atkins
 P. A. Dearing
 B. CHAKRABORTY

Date Requested: 07/20/88 Cigarette Description: MOD. BL/DAP B. CASING
 Approved by: _____ Requestor #: _____
 Requestor Project #: 05-981 Date Manufactured: 8-3-88
 Requestor: B. CHAKRABORTY Pilot Plant Project #: _____
 Designer: B. CHAKRABORTY Purpose: KENT KS IMPROVEMENT SAMPLES

Labdata Number: _____
 Current Brand: KENT
 Cigarette Code: 981326
 Analysis Code: 981326
 Masked Analysis Code: _____
 End Pack Code: _____
 Tobacco Code: 981326F
 Blend Designation: NGLF101T Added Shorts: YES
 Primary Location (M/DC): DC
 Fab Location (M/DC): DC

CASING/FLAVORING
 Redried (Y/N): Y
 Burley Casing: KCF-1983 XCF-1984
 Flue Cured Casing: KCF-2009
 Top Dressing: KCF-2008
 Flavor: NCF-812
 Operation Number: 05981003
 Date Cased: 7-29-88
 Menthol Retention (%): _____
 Moisture Content (%): 13.00
 Menthol Loc: Flavor Loc: D

FILTER ROD
 Material: _____
 Tow Item: FT-107
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.50
 PRESSURE DROP: 11.20 (T) (A)
 Plasticizer: 7% T/U 7.0 (Y)
 Plug Wrap: KC-65M2
 P.W. Porosity (c): 6500
 Anchor Lines: _____

PACKAGING
 Label Type: HONGKONG
 Closure: GOLD
 Overwrap: FILM
 Tear Tape: GOLD
 Carton Type: HONGKONG

CIGARETTE PAPER
 Supplier: _____
 GRADE: E-753
 Permeability: 47
 Burn Additive (type%): CITRATE 0.91

QUANTITY
 Stock Room Quantity: CTMS
 Distribution Quantity: 30 CTMS
 Market Research Quantity: CTM
 Other Dept. Name: _____
 Other Dept. Quantity: _____

TIPPING/FILTER
 Supplier: _____
 COLOR: WHITE #002
 Length: 26 664C
 Perf. Type: MPPAL
 DISTANCE FROM M.E. (mm): 15 (T) (A)
 Permeability (c): 550 (T) (A)
 Off Line Laser (Y/N): N
 Basis Number (g/m²): _____
 Tipping Adhesive: 3908
 Bobbin Number: 002
 Filter Length: 21
 Tip Pressure Drop: 2.80
 VENTILATION RATE (%): 18.000 (T) (A)
 On Line Laser Vent: (T) (A)
 # of Lines: _____
 Holes / Inch: _____
 Mask Width: _____
 Mask Color: _____

CIGARETTE
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.8 (T) (A)
 Maker Speed: 2500
 Trim Check: 2190
 End Stability (g/cc): 13

TOBACCO SECTION
 Length (mm): 63
 TOBACCO WEIGHT (mg): 771 (T) (A)
 Density (mg/cc): 250 (T) (A)

NON-TOBACCO WEIGHTS
 Avg. Rod Weight: 138
 Seam and Paper Weight: 44
 Tipping Weight: 32
 Weight / 100 Cigts.: 985
 991

Special Instructions:
 ADJUST TIPPING TO ACHIEVE TARGET VENT
 AND "LOW TO MIDDLE" TAR BAND

PACKAGING TO BE PLAIN WHITE WITH HONG KONG WARNING

620759690

BROWN & WILLIAMSON TOBACCO CORPORATION
 ** DEVELOPMENT CENTER WORK REQUEST **

CC: P. L. WILKINS
 P. A. Dearing
 B. CHAKRABORTY

Date Requested: 07/20/88 Cigarette Description: MOD. BL/DAP B. CASING
 Approved by: _____ Requestor #: _____
 Requestor Project #: 05-981 Date Manufactured: 8-3-88
 Requestor: B. CHAKRABORTY Pilot Plant Project #: _____
 Designer: B. CHAKRABORTY Purpose: KENT KS IMPROVEMENT SAMPLES

Labdata Number: _____
 Current Brand: **KENT**
 Cigarette Code: 981327
 Analysis Code: 981327
 Masked Analysis Code: _____
 End Pack Code: _____
 Tobacco Code: 981327
 Blend Designation: NGLF101T Added Shorts: YES
 Primary Location (N/DC): DC
 Fab Location (N/DC): DC

QUANTITY
 Stock Room Quantity: CTMS
 Distribution Quantity: 30 CTMS
 Market Research Quantity: CTM
 Other Dept. Name: _____
 Other Dept. Quantity: _____

CASING/FLAVORING
 Redried (Y/N): Y
 Burley Casing: XCF-1983 XCF-1984
 Flue Cured Casing: XCF-2009
 Top Dressing: XCF-2008
 Flavor: XFF-NIL
 Operation Number: 05981003
 Date Cased: 7-29-88
 Menthol Retention (%): _____
 Moisture Content (%): 13.00
 Menthol Loc: _____ Flavor Loc: D

TIPPING/FILTER
 Supplier: _____
 COLOR: WHITE
 Length: 26
 Perf. Type: NMP4L
 DISTANCE FROM H.E. (mm): 15 (T) (A)
 Permeability (c): 550 (T) (A) 664
 Off Line Laser (Y/N): N
 Basis Number (g/h2): _____
 Tipping Adhesive: 3908
 Bobbin Number: 002
 Filter Length: 21
 Tip Pressure Drop: 2.80
 VENTILATION RATE (%): 18.000 (T) (A)
 On Line Laser Vent: (T) (A)
 # of Lines: _____
 Holes / Inch: _____
 Mask Width: _____
 Mask Color: _____

FILTER ROD
 Material: _____
 Tow Item: FT-107
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.50
 PRESSURE DROP: 11.20 (T) (A)
 Plasticizer: 7% T/U 7.0 (X)
 Plug Wrap: KC-65M2
 P.W. Porosity (c): 6500
 Anchor Lines: _____

CIGARETTE
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.8 (T) (A)
 Maker Speed: 2500
 Trin Check: 2270
 End Stability (g/cc): 12

PACKAGING
 Label Type: HONGKONG
 Closure: GOLD
 Overwrap: FILM
 Tear Tape: GOLD
 Carton Type: HONGKONG

TOBACCO SECTION
 Length (mm): 63
 TOBACCO WEIGHT (mg): 771 (T) (A)
 Density (mg/cc): 250 (T) (A)

CIGARETTE PAPER
 Supplier: _____
 GRADE: E-753
 Permeability: 47
 Burn Additive (type%): CITRATE 0.91

NON-TOBACCO WEIGHTS
 Avg. Rod Weight: 138
 Sean and Paper Weight: 44
 Tipping Weight: 32
 Weight / 100 Cigs.: 985
 991

Special Instructions:
 ADJUST TIPPING TO ACHIEVE TARGET VENT
 AND "LOW TO MIDDLE" TAR BAND

PACKAGING TO BE PLAIN WHITE WITH HONG KONG WARNING

620759691

BROWN & WILLIAMSON TOBACCO CORPORATION
 ** DEVELOPMENT CENTER WORK REQUEST **

BY: R. L. REKINS
 P. A. BEARING
 B. CHAKRABORTY

Date Requested: 07/20/88
 Approved by: _____
 Requestor Project #: 05-981
 Requestor: B. CHAKRABORTY
 Designer: B. CHAKRABORTY

Cigarette Description: MOD. BL/DAP B. CASING
 Requestor #: _____
 Date Manufactured: 8-3-88
 Pilot Plant Project #: _____
 Purpose: KENT KS IMPROVEMENT SAMPLES

Labdata Number: _____
 Current Brand: **KENT**
 Cigarette Code: 981328
 Analysis Code: 981328
 Masked Analysis Code: _____
 End Pack Code: _____
 Tobacco Code: 981328F
 Blend Designation: NGLF101T Added Shorts: YES
 Primary Location (N/DC): DC
 Fab Location (N/DC): DC

QUANTITY
 Stock Room Quantity: CTNS
 Distribution Quantity: 30 CTNS
 Market Research Quantity: CTN
 Other Dept. Name: _____
 Other Dept. Quantity: _____

CASING/FLAVORING
 Redried (Y/N): Y
 Burley Casing: XCF-1983 XCF-1984
 Flue Cured Casing: XCF-2009
 Top Dressing: XCF-2008
 Flavor: XFF-545
 Operation Number: 05981003
 Date Cased: 7-29-88
 Menthol Retention (%): _____
 Moisture Content (%): 13.00
 Menthol Loc: Flavor Loc: D

TIPPING/FILTER
 Supplier: _____
 COLOR: WHITE
 Length: 26
 Perf. Type: HMP4L
 DISTANCE FROM M.E. (mm): 15 (T) (A)
 Permeability (c): 550 (T) (A) 664
 Off Line Laser (Y/N): N
 Basis Number (g/m2): _____
 Tipping Adhesive: 3908
 Bobbin Number: 002
 Filter Length: 21
 Tip Pressure Drop: 2.80
 VENTILATION RATE (%): 18.000 (T) (A)
 On Line Laser Vent: (T) (A)
 # of Lines: _____
 Holes / Inch: _____
 Mask Width: _____
 Mask Color: _____

FILTER ROD
 Material: _____
 Tow Item: FI-107
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.50
 PRESSURE DROP: 11.20 (T) (A)
 Plasticizer: 7% T/U 7.0 (%)
 Plug Wrap: KC-65M2
 P.M. Porosity (c): 6500
 Anchor Lines: _____

CIGARETTE
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.8 (T) (A)
 Maker Speed: 2500
 Trim Check: 1997
 End Stability (g/cc): 11

PACKAGING
 Label Type: HONGKONG
 Closure: GOLD
 Overwrap: FILM
 Tear Tape: GOLD
 Carton Type: HONGKONG

TOBACCO SECTION
 Length (mm): 63
 TOBACCO WEIGHT (mg): 771 (T) (A)
 Density (mg/cc): 250 (T) (A)

CIGARETTE PAPER
 Supplier: _____
 GRADE: E-753
 Permeability: 47
 Burn Additive (type%): CITRATE 0.91

NON-TOBACCO WEIGHTS
 Avg. Rod Weight: 138
 Seam and Paper Weight: 44
 Tipping Weight: 32
 Weight / 100 Cigts.: 985
 991

Special Instructions:
 ADJUST TIPPING TO ACHIEVE TARGET VENT
 AND "LOW TO MIDDLE" TAR BAND

PACKAGING TO BE PLAIN WHITE WITH HONG KONG MARKING

620759692

BROWN & WILLIAMSON TOBACCO CORPORATION
 ** DEVELOPMENT CENTER WORK REQUEST **

CC: P. E. ATKINS
 P. A. Dearing
 B. CHAKRABORTY

Date Requested: 07/20/88 Cigarette Description: MOD. BL/DAP B. CASING
 Approved by: _____ Requestor #: _____
 Requestor Project #: 05-981 Date Manufactured: 8-3-88
 Requestor: H. CHAKRABORTY Pilot Plant Project #: _____
 Designer: H. CHAKRABORTY Purpose: KENT KS IMPROVEMENT SAMPLES

Labdata Number: _____
 Current Brand: **KENT**
 Cigarette Code: **981329**
 Analysis Code: **981329**
 Masked Analysis Code: _____
 End Pack Code: _____
 Tobacco Code: **981329F**
 Blend Designation: **NGLF101T** Added Shorts: YES
 Primary Location (M/DC): DC
 Fab Location (M/DC): DC

****QUANTITY****
 Stock Room Quantity: _____ CTNS
 Distribution Quantity: 30 CTNS
 Market Research Quantity: CTN
 Other Dept. Name: _____
 Other Dept. Quantity: _____

****CASING/FLAVORING****
 Redried (Y/N): Y
 Burley Casing: XCF-1983 XCF-1984
 Flue Cured Casing: XCF-2009
 Top Dressing: XCF-2008
 Flavor: XTF-546
 Operation Number: **05981003**
 Date Cased: **7-29-88**
 Menthol Retention (%): _____
 Moisture Content (%): 13.00
 Menthol Loc: _____ Flavor Loc: D

****TIPPING/FILTER****
 Supplier: _____
 COLOR: WHITE
 Length: 26
 Perf. Type: **NAPAL**
 DISTANCE FROM N.E. (mm): 15 (T) (A)
 Permeability (c): 550 (T) (A) **664**
 Off Line Laser (Y/N): N
 Basis Number (g/m2): _____
 Tipping Adhesive: **3908**
 Bobbin Number: **002**
 Filter Length: 21
 Tip Pressure Drop: 2.80
 VENTILATION RATE (%): 18.000 (T) (A)
 On Line Laser Vent: (T) (A)
 # of Lines: _____
 Holes / Inch: _____
 Mask Width: _____
 Mask Color: _____

****FILTER ROD****
 Material: _____
 Tow Item: FT-107
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.50
 PRESSURE DROP: 11.20 (T) (A)
 Plasticizer: 7% T/U 7.0 (Z)
 Plug Wrap: KC-65N2
 P.W. Porosity (c): 6500
 Anchor Lines: _____

****CIGARETTE****
 Length (mm): 84
 CIRCUMFERENCE (mm): 24.8 (T) (A)
 Maker Speed: **2500**
 Trim Check: **21%**
 End Stability (g/cc): **13**

****PACKAGING****
 Label Type: HONGKONG
 Closure: GOLD
 Overwrap: FILM
 Tear Tape: GOLD
 Carton Type: HONGKONG

****TOBACCO SECTION****
 Length (mm): 63
 TOBACCO WEIGHT (mg): 771 (T) (A)
 Density(mg/cc): 250 (T) (A)

****CIGARETTE PAPER****
 Supplier: _____
 GRADE: E-753
 Permeability: 47
 Burn Additive (type%): CITRATE 0.91

****NON-TOBACCO WEIGHTS****
 Avg. Rod Weight: **138**
 Seam and Paper Weight: **44**
 Tipping Weight: **32**
 Weight / 100 Cigs.: **985**
991

Special Instructions:
 ADJUST TIPPING TO ACHIEVE TARGET VENT
 AND "LOW TO MIDDLE" TAR BAND

PACKAGING TO BE PLAIN WHITE WITH HONG KONG WARNING

620759693

PROJECT NUMBER 0598100 WEIGHT SHEET SUPERVISOR Bill Ross
 SAMPLE NUMBER 981323 thru 981329 DATE 8-3-88

| CIGARETTE WT. | | | CIRCUMFERENCE | | | VENTILATION | | |
|--------------------|------|--------------|----------------------|-------|--------------|-------------------|------|--------------|
| TARGET: <u>991</u> | | | TARGET: <u>24.80</u> | | | TARGET: <u>18</u> | | |
| LESS THAN | | GREATER THAN | LESS THAN | | GREATER THAN | LESS THAN | | GREATER THAN |
| <u>821</u> 981 | TO | <u>1001</u> | <u>24.75</u> | TO | <u>24.85</u> | <u>15</u> | TO | <u>21</u> |
| ↓ | | ↓ | ↓ | | ↓ | ↓ | | ↓ |
| 981323 | 9950 | | 24.83 | | | 16.1 | | |
| | 9951 | | 24.83 | | | 16.6 | | |
| | 9981 | | 24.80 | | | 18.4 | | |
| 9965 | | | 24.84 | | | 17.5 | | |
| | 9995 | | | | | 15.8 | | |
| <hr/> | | | | | | | | |
| 981 | 991 | 1001 | 75 | 24.80 | 85 | 15 | 18 | 21 |
| | 9930 | | | 24.85 | | | 18.3 | |
| 981324 | 9987 | | | 24.82 | | | 17.6 | |
| | | 1003 | | 24.83 | | | 16.0 | |
| <hr/> | | | | | | | | |
| 981 | 991 | 1001 | 75 | 24.80 | 85 | 15 | 18 | 21 |
| | 9910 | | | 24.82 | | | 18.7 | |
| | | 1004 | | 24.84 | | | 16.4 | |
| | | 1003 | | | | | | |
| <hr/> | | | | | | | | |
| 981 | 991 | 1001 | 75 | 24.80 | 85 | 15 | 18 | 21 |
| | 985 | | | 24.81 | | | 19.3 | |
| 981326 | 996 | | | 24.83 | | | 19.6 | |
| | | 1002 | | 24.82 | | | 15.5 | |

COMMENTS: _____

PROJECT NUMBER 0598100 WEIGHT SHEET

SUPERVISOR Bil Roca

SAMPLE NUMBER 9813252-981329

DATE 8-3-88

CIGARETTE WT. CIRCUMFERENCE VENTILATION

TARGET: 991 TARGET: 24.80 TARGET: 18

LESS THAN Greater THAN LESS THAN GREATER THAN LESS THAN GREATER THAN

981 TO 1001 24.75 TO 24.85 15 TO 21

↓ ↓ ↓ ↓ ↓ ↓

| | CIGARETTE WT. | | | TIME | CIRCUMFERENCE | | | P/D | VENTILATION | | |
|--------|---------------|--------------|------|------|---------------|--------------|----|-----|-------------|--------------|--------|
| | LESS THAN | Greater THAN | | | LESS THAN | GREATER THAN | | | LESS THAN | GREATER THAN | |
| 981322 | | 991 | | | | 24.77 | | | | 18.0 | |
| | | 991 | | | | 24.78 | | | | 18.1 | |
| | | 993 | | | | 24.75 | | | | 18.4 | ENS-12 |
| | | 988 | | | 24.74 | | | | | | |
| 981328 | 981 | 991 | 1001 | | 75 | 24.80 | 85 | | 15 | 18 | 21 |
| | | 994 | | | | 24.79 | | | | 18.2 | |
| | | 987 | | | | 24.77 | | | | 16.0 | |
| | | 995 | | | | 24.81 | | | | 15.4 | ENS-11 |
| | | 990 | | | | | | | | | |
| 981329 | 981 | 991 | 1001 | | 75 | 24.80 | 85 | | 15 | 18 | 21 |
| | 980 | | | | | 24.82 | | | | 19.2 | ENS-13 |
| | | 992 | | | | 24.79 | | | | 17.3 | |
| | | | 1003 | | 24.72 | | | | | | |
| | 991 | | | | | | | | | | |

COMMENTS: _____

PILOT PLANT OVEN MOISTURE

| TO: | | CHGE. NO. | | | DATE: | | | ANALYST: | | |
|-------------|----------|------------|-----------|------------|--------------------------|----------------|----------------|----------------|----------------|--|
| | | 05-981-002 | | | 7/29/88 MA | | | RL | | |
| TARE-IN | | TARE-OUT | | | TARE-IN | | TARE-OUT | | | |
| SAMPLE CODE | % MOIST. | TIN NO. | WT IN (g) | WT OUT (g) | SAMPLE CODE | % MOIST. | TIN NO. | WT IN (g) | WT OUT (g) | |
| 981-2-B10-1 | 10.8 | 483 | 724 | 646 | 981-2-BXC-1 | 259 | 104 | 595 | 441 | |
| | 12.0 | | 660 | 581 | | 304 | | 830 | 578 | |
| | 11.5 | | 671 | 594 | | 356 | | 591 | 445 | |
| | 11.4 | | 678 | 601 | | 413 | | 444 | 387 | |
| R 11.6 | 11.6 | | 682 | 541 | | 294 | | 703 | 486 | |
| SD 0.5 | 11.8 | | 689 | 606 | | 312 | | 757 | 498 | |
| | 10.9 | | 755 | 673 | | 294 | | 728 | 514 | |
| | 12.4 | | 733 | 648 | R 27.2 | 26.0 | | 746 | 591 | |
| | 11.9 | | 705 | 631 | SD 25 | 26.1 | | 708 | 523 | |
| | 11.7 | 201 | 659 | 582 | | 38.1 | | 860 | 618 | |
| | | | | | See 2 ND page | 26.6 | | 738 | 534 | |
| | | | | | | 28.0 | | 535 | 402 | |
| | | | | | | 28.0 | | 604 | 435 | |
| | | | | | | 26.6 | | 582 | 417 | |
| | | | | | | 26.6 | | 523 | 384 | |
| | | | | | | 26.9 | | 542 | 376 | |
| | | | | | | 25.4 | | 764 | 570 | |
| | | | | | | 25.2 | | 739 | 523 | |
| | | | | | | 27.1 | | 704 | 513 | |
| | | | | | 20 | 26.4 | 248 | 740 | 545 | |

COMMENTS:

620759696

PILOT PLANT OVEN MOISTURE

| TO: | | CHGE. NO. | | | DATE: | | | ANALYST: | | |
|-------------|----------|------------|------------|-------------|-------------|----------|---------|------------|-------------|--|
| | | 05-981.002 | | | 7/29/88 M A | | | P.A. | | |
| TARE-IN | | TARE-OUT | | | TARE-IN | | | TARE-OUT | | |
| SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | |
| 981-2-CS-1 | 5.2 | 326 | 574 | 544 | | 5.1 | | 573 | 544 | |
| | 5.0 | | 542 | 515 | | 6.2 | | 601 | 564 | |
| | 5.0 | | 644 | 612 | | 5.5 | | 573 | 513 | |
| | 5.3 | | 638 | 604 | | 5.7 | | 590 | 507 | |
| | 5.1 | | 622 | 570 | | 4.8 | | 600 | 571 | |
| | 6.5 | | 570 | 533 | | 5.0 | | 596 | 567 | |
| | 5.2 | | 568 | 535 | | 5.0 | | 605 | 575 | |
| | 4.6 | | 522 | 498 | 30 | 5.0 | 326 | 572 | 553 | |
| | 5.3 | | 562 | 532 | | | | | | |
| | 5.1 | | 534 | 507 | | | | | | |
| | 5.0 | | 524 | 496 | | | | | | |
| | 4.9 | | 590 | 561 | | | | | | |
| | 4.9 | | 577 | 545 | | | | | | |
| | 4.8 | | 522 | 497 | | | | | | |
| | 5.5 | | 619 | 585 | | | | | | |
| | 7.5 | | 576 | 533 | | | | | | |
| | 6.0 | | 604 | 568 | | | | | | |
| | 6.6 | | 574 | 480 | | | | | | |
| | 6.7 | | 586 | 547 | | | | | | |
| | 6.0 | | 535 | 503 | | | | | | |
| | 6.5 | | 626 | 585 | | | | | | |
| | 6.1 | | 553 | 519 | | | | | | |

x 5.5
SD 0.7

COMMENTS:

620759697

PILOT PLANT OVEN MOISTURE

| TO: | | CHGE. NO. | | | DATE: | | | ANALYST: | | |
|----------------|----------|------------|------------|-------------|----------------------|----------|---------|------------|-------------|--|
| | | 05-981-002 | | | 7/29/88 M.A. | | | PA. | | |
| TARE-IN | | TARE-OUT | | | TARE-IN | | | TARE-OUT | | |
| SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | |
| 981-2-xR-1 | 14.3 | 81 | 596 | 511 | 981-2- | 291 | 54 | 674 | 478 | |
| | 12.3 | | 633 | 554 | Eq. Packing 2nd Pass | 285 | | 840 | 601 | |
| | 13.5 | | 557 | 482 | | 266 | | 744 | 583 | |
| | 13.9 | | 663 | 571 | \bar{x} 27.7 | 269 | | 620 | 453 | |
| | 13.5 | | 645 | 558 | σ 1.0 | 273 | | 786 | 525 | |
| | 13.2 | | 770 | 668 | | | | | | |
| | 11.9 | | 678 | 592 | OK | | | | | |
| | 13.8 | | 725 | 625 | PKS | | | | | |
| \bar{x} 14.4 | 14.0 | | 750 | 645 | | | | | | |
| SD 1.3 | 14.9 | | 788 | 615 | | | | | | |
| | 14.2 | | 667 | 570 | | | | | | |
| | 14.0 | | 836 | 719 | | | | | | |
| | 13.2 | | 703 | 610 | | | | | | |
| | 14.7 | | 660 | 563 | | | | | | |
| | 16.0 | | 706 | 593 | | | | | | |
| | 14.8 | | 724 | 617 | | | | | | |
| | 15.0 | | 729 | 620 | | | | | | |
| | 16.1 | | 727 | 647 | | | | | | |
| | 16.2 | | 782 | 655 | | | | | | |
| 20 | 17.3 | 44 | 919 | 760 | | | | | | |

COMMENTS:

620759698

PILOT PLANT OVEN MOISTURE

| TO: | | CHGE. NO. | DATE: | | ANALYST: | | | | |
|-------------|----------|------------|-------------|--------------|-------------|----------|---------|-------------|--------------|
| | | 05-981-003 | 8/1/88 MA | | F.A. | | | | |
| TARE-IN | | TARE-OUT | | TARE-IN | | TARE-OUT | | | |
| SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g.) | WT. OUT (g.) | SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g.) | WT. OUT (g.) |
| 981-3-BIC-1 | 14.6 | 436 | 768 | 656 | 981-3-BXC-1 | 31.7 | 323 | 821 | 561 |
| | 10.9 | | 615 | 578 | | 32.6 | | 653 | 440 |
| | 11.5 | | 749 | 663 | | 46.2 | | 809 | 500 |
| | 12.4 | | 691 | 601 | | 34.5 | | 774 | 527 |
| X/23 | 13.1 | | 648 | 503 | | 32.7 | | 933 | 628 |
| SD 1.1 | 12.5 | | 583 | 510 | | 32.7 | | 814 | 548 |
| | 13.5 | | 813 | 713 | | 31.1 | | 676 | 466 |
| | 11.7 | | 618 | 546 | | 38.8 | | 886 | 502 |
| | 12.0 | | 759 | 668 | | 30.9 | | 727 | 502 |
| 10 | 11.2 | 117 | 738 | 655 | | 33.6 | | 714 | 474 |
| | | | | | | 34.8 | | 595 | 388 |
| | | | | | F 33.7 | 34.8 | | 595 | 388 |
| | | | | | SD 3.5 | 30.8 | | 704 | 487 |
| | | | | | | 34.5 | | 844 | 514 |
| | | | | | | 32.5 | | 650 | 439 |
| | | | | | | 30.7 | | 792 | 549 |
| | | | | | | 30.7 | | 665 | 463 |
| | | | | | | 34.3 | | 727 | 478 |
| | | | | | | 34.7 | | 859 | 561 |
| | | | | | | 31.4 | | 743 | 508 |
| | | | | | 20 | 35.3 | 257 | 852 | 537 |

COMMENTS:

OK HCG

PILOT PLANT OVEN MOISTURE

| TO: | | CHGE. NO. | | | DATE | | | ANALYST | | |
|-------------|----------|------------|------------|-------------|-------------|----------|---------|------------|-------------|--|
| | | 05-981-003 | | | 8/1/88 | | | M A | | |
| TARE-IN | | TARE-OUT | | | TARE-IN | | | TARE-OUT | | |
| SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | |
| 981-3-15-1 | 8.0 | 226 | 440 | 425 | | 68 | | 560 | 540 | |
| | 7.0 | | 589 | 578 | | 68 | | 546 | 528 | |
| | 7.2 | | 543 | 504 | | 7.0 | | 543 | 522 | |
| | 8.1 | | 516 | 474 | | 8.5 | | 483 | 442 | |
| | 6.0 | | 628 | 637 | | 7.0 | | 528 | 525 | |
| | 7.0 | | 557 | 516 | | 6.9 | | 605 | 573 | |
| | 7.0 | | 516 | 480 | | 6.8 | | 605 | 561 | |
| | 7.6 | | 486 | 449 | 30 | 6.2 | 53 | 526 | 483 | |
| | 6.2 | | 588 | 521 | | | | | | |
| | 6.4 | | 562 | 526 | | | | | | |
| | 7.1 | | 510 | 471 | | | | | | |
| | 6.5 | | 520 | 486 | F 6.9 | | | | | |
| | 7.2 | | 525 | 487 | SD 0.7 | | | | | |
| | 7.5 | | 540 | 506 | | | | | | |
| | 6.4 | | 612 | 573 | | | | | | |
| | 6.0 | | 547 | 514 | | | | | | |
| | 6.2 | | 566 | 531 | | | | | | |
| | 6.1 | | 577 | 542 | | | | | | |
| | 7.7 | | 560 | 517 | | | | | | |
| | 7.1 | | 537 | 499 | | | | | | |
| | 6.1 | | 530 | 496 | | | | | | |
| | 6.8 | | 570 | 537 | | | | | | |

COMMENTS:

620759700

PILOT PLANT OVEN MOISTURE

| TO: | | CHGE. NO. | | | DATE: | | | ANALYST: | | |
|-------------|----------|------------|------------|-------------|-------------|----------|---------|------------|-------------|--|
| | | 05-981-003 | | | 8/1/88 (M) | | | A | | |
| TARE-IN | | TARE-OUT | | | TARE-IN | | | TARE-OUT | | |
| SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | |
| 981-3-XR- | 13.3 | 14 | 641 | 540 | | | | | | |
| | 14.5 | | 768 | 657 | | | | | | |
| | 12.4 | | 611 | 535 | | | | | | |
| | 12.9 | | 641 | 558 | | | | | | |
| | 13.7 | | 634 | 547 | | | | | | |
| | 13.9 | | 570 | 508 | | | | | | |
| | 17.0 | | 801 | 665 | | | | | | |
| | 14.1 | | 587 | 504 | | | | | | |
| | 13.9 | | 657 | 566 | | | | | | |
| | 12.8 | | 657 | 573 | | | | | | |
| | 12.4 | | 621 | 544 | | | | | | |
| | 14.3 | | 757 | 649 | | | | | | |
| | 15.0 | | 688 | 585 | | | | | | |
| | 16.0 | | 712 | 623 | | | | | | |
| | 14.7 | | 611 | 521 | | | | | | |
| | 16.3 | | 676 | 566 | | | | | | |
| | 24.1 | | 826 | 627 | | | | | | |
| | 14.3 | | 588 | 504 | | | | | | |
| | 16.5 | | 668 | 538 | | | | | | |
| 20 | 14.2 | 132 | 648 | 554 | | | | | | |

\bar{x} 14.8
SD 2.5

COMMENTS:

620759701

PILOT PLANT OVEN MOISTURE

| TO: | | CHGE. NO. | | | DATE: | | | ANALYST: | | |
|--------------|----------|------------|------------|-------------|--------------|----------|----------|------------|-------------|--|
| | | 05-981-002 | | | 8/1/86 MA | | | PA | | |
| TARE-IN | | TARE-OUT | | | TARE-IN | | TARE-OUT | | | |
| SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | |
| 981-2-LTD -1 | 139 | 421 | 575 | 495 | 981-2-FCIC-1 | 133 | 182 | 745 | 646 | |
| | 153 | | 568 | 481 | | 132 | | 741 | 643 | |
| | 145 | | 598 | 511 | | 140 | | 762 | 651 | |
| | 140 | | 705 | 606 | | 140 | | 812 | 696 | |
| | 147 | | 600 | 512 | | 131 | | 650 | 565 | |
| F139 | 137 | | 695 | 600 | F145 | 153 | | 764 | 647 | |
| SD 0.8 | 131 | | 635 | 552 | SD 2.4 | 13.1 | | 662 | 515 | |
| | 13.6 | | 697 | 602 | | 13.8 | | 739 | 657 | |
| | 133 | | 581 | 504 | | 21.3 | | 907 | 714 | |
| 10 | 129 | 81 | 669 | 583 | | 13.8 | 375 | 712 | 614 | |
| 981-2-XTD -1 | 236 | 176 | 766 | 585 | 981-2-FCXC-1 | 23.4 | 475 | 761 | 583 | |
| | 20.3 | | 833 | 654 | | 19.3 | | 746 | 602 | |
| | 21.9 | | 621 | 481 | | 23.4 | | 800 | 613 | |
| | 20.7 | | 710 | 563 | | 22.1 | | 765 | 580 | |
| F226 | 22.3 | | 642 | 497 | F23.0 | 20.9 | | 741 | 586 | |
| SD 1.4 | 24.7 | | 627 | 472 | SD 3.2 | 21.0 | | 704 | 556 | |
| | 21.7 | | 702 | 550 | | 21.4 | | 846 | 645 | |
| | 23.1 | | 713 | 548 | | 22.2 | | 846 | 658 | |
| | 24.0 | | 747 | 568 | | 30.9 | | 974 | 613 | |
| 10 | 24.1 | 124 | 730 | 534 | 10 | 25.2 | 353 | 910 | 681 | |

COMMENTS:

PILOT PLANT OVEN MOISTURE

| TO: | | CHGE. NO. | | | DATE: | | | ANALYST: | | |
|-------------|-----------------|------------|----------------|----------------|--------------|----------|---------|------------|-------------|--|
| | | 05-981-003 | | | 8/2/88 (M)A | | | PA- | | |
| TARE-IN | | TARE-OUT | | | TARE-IN | | | TARE-OUT | | |
| SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | |
| 981-3-ITD-1 | 13.7 | 280 | 652 | 563 | 981-3-FC1C-1 | 11.5 | 284 | 758 | 671 | |
| | 14.8 | | 620 | 528 | | 13.6 | | 631 | 545 | |
| | 14.2 | | 605 | 519 | | 12.4 | | 789 | 691 | |
| | 14.6 | | 654 | 729 | | 14.2 | | 690 | 592 | |
| X141 | 15.5 | | 606 | 512 | X133 | 13.9 | | 698 | 601 | |
| SD 0.7 | 14.4 | | 784 | 684 | SD 1.2 | 14.4 | | 784 | 673 | |
| | 13.2 | | 630 | 547 | | 15.4 | | 902 | 763 | |
| | 13.6 | | 664 | 574 | | 12.0 | | 831 | 731 | |
| | 13.7 | | 584 | 506 | | 13.7 | | 834 | 720 | |
| 10 | 13.5 | 23 | 674 | 583 | 10 | 12.2 | 132 | 723 | 635 | |
| 981-3-XTD-1 | 20.5 | 141 | 709 | 564 | 981-3-FCXC-1 | 18.4 | 127 | 849 | 693 | |
| | 22.5 | | 693 | 537 | | 23.9 | | 639 | 486 | |
| | 22.0 | | 731 | 570 | | 23.9 | | 867 | 660 | |
| | 22.3 | | 650 | 505 | | 21.6 | | 765 | 600 | |
| X224 | 23.4 | | 745 | 571 | X21.6 | 19.5 | | 586 | 472 | |
| SD 1.1 | 20.7 | | 706 | 560 | SD 2.2 | 24.7 | | 776 | 584 | |
| | 21.8 | | 775 | 606 | | 20.3 | | 719 | 573 | |
| | 23.7 | | 627 | 479 | | 19.1 | | 727 | 577 | |
| | 22.8 | | 613 | 473 | | 20.9 | | 719 | 569 | |
| 10 | 24.1 | 481 | 776 | 589 | 10 | 23.3 | 51 | 887 | 680 | |

COMMENTS:

PILOT PLANT OVEN MOISTURE *8/1/88*

| TO: | | CHGE. NO. | | | DATE: | | | ANALYST | | |
|----------------|---------------|------------------|------------|-------------|----------------|---------------|---------|------------|-------------|--|
| | | <i>0598100-2</i> | | | <i>7-29-88</i> | | | <i>PA</i> | | |
| TARE-IN | | TARE-OUT | | | TARE-IN | | | TARE-OUT | | |
| SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g) | WT. OUT (g) | |
| <i>EX CUT</i> | <i>1 220</i> | <i>115</i> | <i>687</i> | <i>539</i> | | | | | | |
| | <i>2 210</i> | | <i>706</i> | <i>538</i> | | | | | | |
| | <i>3 214</i> | | <i>710</i> | <i>538</i> | | <i>21.6</i> | | | | |
| | <i>4 219</i> | | <i>713</i> | <i>537</i> | | <i>-04</i> | | | | |
| | <i>5 216</i> | | <i>707</i> | <i>601</i> | | | | | | |
| <i>EX BULK</i> | <i>1 121</i> | <i>141</i> | <i>627</i> | <i>531</i> | | | | | | |
| | <i>2 124</i> | | <i>615</i> | <i>539</i> | | | | | | |
| | <i>3 123</i> | | <i>677</i> | <i>544</i> | | | | | | |
| | <i>4 124</i> | | <i>695</i> | <i>609</i> | | <i>12.3</i> | | | | |
| | <i>5 121</i> | | <i>626</i> | <i>533</i> | | <i>50 0.2</i> | | | | |
| | <i>6 122</i> | | <i>756</i> | <i>664</i> | | | | | | |
| | <i>7 127</i> | | <i>700</i> | <i>611</i> | | | | | | |
| | <i>8 122</i> | | <i>722</i> | <i>634</i> | | | | | | |
| | <i>9 121</i> | | <i>807</i> | <i>709</i> | | | | | | |
| | <i>10 122</i> | | <i>638</i> | <i>560</i> | | | | | | |
| | <i>11 123</i> | | <i>642</i> | <i>563</i> | | | | | | |
| | <i>12 127</i> | | <i>615</i> | <i>537</i> | | | | | | |
| | <i>13 123</i> | | <i>652</i> | <i>572</i> | | | | | | |
| | <i>14 122</i> | | <i>716</i> | <i>629</i> | | | | | | |
| | <i>15 122</i> | <i>211</i> | <i>633</i> | <i>536</i> | | | | | | |

COMMENTS:

620759704

PILOT PLANT OVEN MOISTURE

| TO: | | CHGE. NO. | | DATE | | ANALYST | | | |
|-------------|----------|------------|-------------|--------------|-------------|----------|---------|-------------|--------------|
| | | 05-981-003 | | 8/2/88 | | PA | | | |
| TARE-IN | | TARE-OUT | | TARE-IN | | TARE-OUT | | | |
| SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g.) | WT. OUT (g.) | SAMPLE CODE | % MOIST. | TIN NO. | WT. IN (g.) | WT. OUT (g.) |
| 991-3-XC-1 | 211 | 6 | 634 | 500 | | | | | |
| Edie Cutler | 211 | | 710 | 560 | | | | | |
| | 213 | | 737 | 570 | F 211 | | | | |
| | 207 | | 753 | 599 | 0.2 | | | | |
| | 213 | | 790 | 622 | | | | | |
| 991-3-XB-1 | 12.3 | 461 | 538 | 470 | | | | | |
| Edie Bulkin | 121 | | 645 | 567 | | | | | |
| | 124 | | 653 | 570 | | | | | |
| | 12.3 | | 653 | 573 | | | | | |
| | 11.8 | | 627 | 553 | | | | | |
| | 12.4 | | 726 | 636 | F 12.3 | | | | |
| | 12.4 | | 539 | 472 | SD 0.2 | | | | |
| | 12.1 | | 612 | 538 | | | | | |
| | 12.3 | | 604 | 565 | | | | | |
| | 12.2 | | 633 | 536 | | | | | |
| | 12.3 | | 748 | 656 | | | | | |
| | 12.7 | | 657 | 572 | | | | | |
| | 12.7 | | 647 | 565 | | | | | |
| | 12.5 | | 646 | 583 | | | | | |
| 15 | 12.5 | 198 | 657 | 575 | | | | | |

COMMENTS:

620759705

FLAVOR:

MGF-812

FLAVOR QUANTITY:

Suff. for 200 lbs

APPLICATION RATE:

Apply 24 ml per 25 lbs

FLAVOR USE:

PREPARED BY:

E. Rowe

DATE:

8-1-88

DC REPRESENTATIVE:

Roy Lee Hodges

DATE:

620759706

FLAVOR:

XFF-545

FLAVOR QUANTITY:

Suff. for 300 lbs

APPLICATION RATE:

Apply 225 ml / 25

FLAVOR USE:

PREPARED BY:

E. Rowe

DATE:

8-2-88

DC REPRESENTATIVE:

Royce Hodges

DATE:

620759707

FLAVOR:

VFF-546

FLAVOR QUANTITY:

Suff. for 300 lbs

APPLICATION RATE:

Apply 225 ml per 25 lbs

FLAVOR USE:

PREPARED BY:

E. Rowe

DATE:

8-1-49

DC REPRESENTATIVE:

Roy Lee Hedges

DATE:

620759708

8-3-88

13.0 MC

0598100 P

① ✓
7 skip

Blend 21.35 lbs. 05981002
2.35 lbs. Met 3 box #1 (6-30-88)
1.30 lbs. NON MENTHOL SHORTS BOX #1 (6-16-88)
25.00 lbs. / skip

add 70 ml. Water / skip. Code as 981323

When Met 3 box #1 (6-30-88) is depleted, use box #1 (7-5-88)
at same weight.

② ✓
5 skip

Same as 981323 except apply XFF-545 +
NO ml. Water / skip. Code as 981324F.

③ ✓
5 skip

Same as 981323 except apply XFF-546 +
NO ml. Water / skip. Code as 981325F.

④ ✓
5 skip

Blend 21.35 lbs. 05981003
2.35 lbs. Met 3 box #1 (6-30-88)
1.30 lbs. NON MENTHOL SHORTS BDX #1 (6-16-88)
25.00 lbs. / skip

add 70 ml. Water / skip. Code as 981327

⑤ ✓
5 skip

Same as 981327 except apply MGF-812 +
NO ml. Water / skip. Code as 981326F

620759709

0598100P

⑤ ✓ Same as 981327 except apply XFF-545 +
5 skips No ml. water/skip. Code as 981328F.

④ ✓ Same as 981327 except apply XFF-546 +
10 skips No ml. water/skip. Code as 981329F.

620759710

8-16-88

0598100P

0 ✓
5 skips

Blend 21.35 lbs. 05981002
 2.35 lbs. Mat 3 box # 1 (7-5-88)
 1.30 lbs. non menthol shorts box # 1 (8-1-88)
 25.00 lbs/skip

Add XFF-530 + NO ml. Water/skip.
 Code as 981331F.

When Mat 3 box # 1 (7-5-88) is depleted, use
 box # 1 (7-8-88) at same weight.

② ✓
3 skips

38.4%

Blend 21.35 lbs. 05981003
 2.35 lbs. Mat 3 box # 1 (7-5-88)
 1.30 lbs. non menthol shorts box # 1 (8-1-88)
 25.00 lbs/skip

Add XFF-528A + NO ml. Water/skip.
 Code 981332FA.

3 skips

Apply XFF-528A + NO Water to each
 25.30 lbs. of 981327.
 Code as 981332FB.

18.20
 71.90
 9.10
 50
 9.60

549

620759711

FLAVOR: XFF-528A

FLAVOR QUANTITY: Suff. for 150# Tobacco

APPLICATION RATE: 222mls/25#

FLAVOR USE: 05-981

PREPARED BY: Theresa Gray

DATE: 8-15-88

DC REPRESENTATIVE: Royce Hodges

DATE:

620759712

FLAVOR:

XFF-538

FLAVOR QUANTITY:

Suff for 150 lbs

APPLICATION RATE:

Apply 157 ml per 25 lbs

FLAVOR USE:

D. Frank

PREPARED BY:

E. Rowe

DATE:

8-16-88

DC REPRESENTATIVE:

Roy Lee Hodges

DATE:

620759713