

- Control
- Information
- Communication
- Management
- Coordination
- Collaboration
- Integration
- Evaluation
- Monitoring
- Reporting

- Strategy
- Planning
- Implementation
- Evaluation
- Monitoring
- Reporting
- Feedback
- Improvement
- Innovation
- Adaptation

- Research
- Development
- Production
- Distribution
- Sales
- Marketing
- Customer Service
- Support
- Training
- HR

- Finance
- Accounting
- Tax
- Insurance
- Legal
- Compliance
- Risk Management
- Security
- IT
- Facilities

- Operations
- Logistics
- Supply Chain
- Inventory
- Production
- Quality Control
- Safety
- Environmental
- Social
- Governance

- Marketing
- Sales
- Customer Service
- Support
- Training
- HR
- Finance
- Accounting
- Tax
- Insurance
- Legal
- Compliance
- Risk Management
- Security
- IT
- Facilities

- Research
- Development
- Production
- Distribution
- Sales
- Marketing
- Customer Service
- Support
- Training
- HR

- Strategy
- Planning
- Implementation
- Evaluation
- Monitoring
- Reporting
- Feedback
- Improvement
- Innovation
- Adaptation

## ALPHA REVIEW

2-21-86

- OBJECTIVE
- MARKET STATUS AND FORECAST
- ORGANIZATION
- THE PLAN AND TIMETABLE
- POSITIONING/CORPORATE RESPONSIBILITY
- BIOLOGICAL/CHEMICAL CHARACTERIZATION
- STATUS
  - PRODUCT
  - OPERATIONS
  - PURCHASING
  - MARKETING
  - SCIENTIFIC AFFAIRS
  - REGULATORY/LEGAL
- SUPPORT
  - EXECUTIVE MANAGEMENT
  - PROJECT PERSONNEL
- OPPORTUNITY/COST
- SECURITY
- PROTECTION
- SECOND GENERATION PRODUCT
  - OBJECTIVE
  - ORGANIZATION AND REPORTING
  - PRIORITIES
  - ACCOUNTABILITIES
  - TIMETABLE

## TIMETABLE - ALPHA II

### NEXT STEPS

### TIMING

- |   |          |
|---|----------|
| ● ESTABLISH STRATEGIC DIRECTION   | COMPLETE |
| ● COMPLETE INITIAL IDEATION PROCESS   | 1/86     |
| ● WEIGH ALTERNATIVES, DEVELOP SPECIFIC DIRECTION,<br>ASSIGN RESOURCES   | 2/10/86  |
| ● DEVELOP DETAILED PLAN INCLUDING RESOURCE<br>ALLOCATION, DETAILED TIMING, REVIEW PROCEDURE<br>AND TARGET DATES | 2/17/86  |
| ● REVIEW TOTAL PLAN WITH ALPHA MANAGEMENT<br>FOR APPROVAL   | 2/24/86  |
| ● FORMAL PRODUCT INVENTION REVIEW   | 6/86     |
| ● PROTOTYPE(S) REDUCED TO PRACTICE  | 12/86    |



## SECOND GENERATION PRIORITIES

### PRIORITIES

1. NO INCOMPLETE COMBUSTION/PYROLYSIS PRODUCTS INCLUDING NO CO.
2. AN ACCEPTABLE NICOTINE SUBSTITUTE. (TBD)
3. AN ACCEPTABLE SUBSTITUTE FOR GLASS FIBER MATERIAL.
4. A PRODUCT WHICH UTILIZES CURRENT OR MODIFIED "POWER PAC" IN A REFILLABLE/REUSABLE CONTAINER.

1. The first of these is the

second of these is the

third of these is the  
fourth of these is the  
fifth of these is the  
sixth of these is the  
seventh of these is the  
eighth of these is the  
ninth of these is the  
tenth of these is the

## SECOND GENERATION OBJECTIVE

- TO DEVELOP AND MARKET A PRODUCT WHICH HAS ALL THE BENEFITS AND ADVANTAGES OF THE INTRODUCTORY PRODUCT, BUT HAS ADDITIONAL CONSUMER BENEFITS INCLUDED.

Organizing the  
Department  
→  
SET & me &  
members



## GENERAL BENEFIT COLLECTION

- TO DEVELOP AND MARKET A PRODUCT WHICH HAS ALL THE BENEFITS AND ADVANTAGES OF THE FERTILIZER PRODUCT, AND HAS ADDITIONAL CONSUMER BENEFITS INCLUDED.

## SECOND GENERATION PRODUCT

### STATUS:

- PRODUCT IS ONLY FIRST GENERATION OF ENTIRELY NEW TECHNOLOGICAL DIRECTION.
- INDUSTRY WILL REACT TO OUR INITIATIVE.
  - WILL TAKE THEM TIME
- NEXT GENERATION SHOULD BE INTRODUCED BY RJR RATHER THAN COMPETITION.
- DEVELOPMENT WILL FOCUS ON ADDRESSING ADDITIONAL PERCEIVED CONSUMER WANTS.
- PLAN WILL BE DEVELOPED THAT IS CONSISTENT WITH AND INTEGRATED INTO OVERALL PROJECT PLAN.

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## 1. THE UNITED STATES

2. THE

3. THE UNITED STATES OF AMERICA

4. THE UNITED STATES OF AMERICA

5. THE UNITED STATES OF AMERICA

6. THE UNITED STATES OF AMERICA

7. THE UNITED STATES OF AMERICA

8. THE UNITED STATES OF AMERICA

PROTECTION

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170000.

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SECURITY

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SECURITY

50501 3001





PROJECT SPA  
FINANCIAL ANALYSIS  
(DOLLARS IN MILLIONS)

	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>
VOLUME (BILLIONS)	-	-	1.2	8.6	22.6	40.9	50.4	60.0	71.0
SHARE OF MARKET	-	-	.2	1.4	3.9	7.1	8.8	10.5	12.5
<u>INCOME</u>									
NET SALES	\$ -	\$ -	\$45	\$328	\$910	\$1722	\$2217	\$2751	\$3254
COSTS	-	-	33	239	645	1166	1442	1823	2158
GROSS PROFIT	-	-	12	89	265	556	775	928	1096
MARKETING	<u>2</u>	<u>4</u>	<u>51</u>	<u>121</u>	<u>127</u>	<u>134</u>	<u>142</u>	<u>151</u>	<u>151</u>
BRAND CONTRIBUTION	(2)	(4)	(39)	(32)	138	422	633	777	945
LOST CONTRIBUTION	-	-	(6)	(50)	(149)	(288)	(377)	(476)	(563)
NET BRAND CONTRIBUTION	<u>\$(2)</u>	<u>\$(4)</u>	<u>\$(45)</u>	<u>\$(82)</u>	<u>\$(11)</u>	<u>\$ 134</u>	<u>\$256</u>	<u>\$301</u>	<u>\$382</u>
<u>PROJECT CONTRIBUTION</u>									
NET BRAND CONTRIBUTION	\$(2)	\$(4)	\$(45)	\$(82)	\$(11)	\$134	\$256	\$301	\$382
PLUS: ALLOCATED MKTG.	-	-	-	1	2	5	6	7	8
FIXED COSTS	-	-	2	13	35	68	88	111	132
LESS: DEVELOPMENT EXP.	<u>(2)</u>	<u>(16)</u>	<u>(34)</u>	<u>(12)</u>	<u>(10)</u>	<u>(11)</u>	<u>(8)</u>	<u>(8)</u>	<u>(8)</u>
CONTRIBUTION TO									
CASH FLOW	<u>\$(4)</u>	<u>\$(20)</u>	<u>\$(77)</u>	<u>\$(80)</u>	<u>\$ 16</u>	<u>\$196</u>	<u>\$342</u>	<u>\$411</u>	<u>\$514</u>

ALPHA I

OPPORTUNITY

<u>YEAR</u>	<u>VOLUME (B)</u>	<u>SOM</u>	<u>NET SALES (MM)</u>
1985	-	-	\$ -
1986	-	-	\$ -
1987	1.2	.2	\$ 45
1988	8.6	1.4	328
1989	22.6	3.9	910
1990	40.9	7.1	1722
1991	50.4	8.8	2217
1992	60.0	10.5	2751
1993	71.0	12.5	\$3254

50501 3004

TABLE 1

Summary

Year	Value	Ratio	Total Sales (MM)
1948	1.2	1.2	105
1949	3.6	1.3	328
1950	12.6	3.9	910
1951	40.9	7.1	1722
1952	110.4	8.8	2017
1953	110.0	10.5	2051
1954	71.0	12.5	43294

## DEMAND ESTIMATE

- ALTERNATE SHARE SCENARIOS DEVELOPED.
  - OPTIMISTIC
  - PESSIMISTIC
  - MOST LIKELY
- BASIS:
  - NON-MENTHOL FILTER CATEGORY (1952-1954)
  - WINSTON (1954-1956)
  - KENT (1956-1958)
  - VANTAGE/MERIT (1970's)
  - SEGMENT DRAW ANALYSIS
- MOST LIKELY:

	<u>YEAR 1</u>	<u>YEAR 2</u>	<u>YEAR 3</u>
AVERAGE SHARE	1.0	3.2	6.3
EXIT SHARE	2.0	4.5	8.0
VOLUME (MM)	5.84	18.88	36.12

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

[illegible]

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 08-29-00 BY  
60322 UCBAW/MSP/KSR/SJS

100-443887-1

[illegible]

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OPPORTUNITY/COST

50501 3008

OPPORTUNITIES

50501 3009

SUPPORT

50501 3010



SUPPORT

REGULATORY/LEGAL

50501 3012

50501 3013

REGULATORY/LEGAL

SCIENTIFIC AFFAIRS

50501 301A

**SCIENTIFIC AFFAIRS**

50501 3015

## PUBLIC RELATIONS/PUBLIC AFFAIRS

- RECOGNIZED AS VITALLY IMPORTANT COMPONENT OF COMMUNICATION.
- COMMUNICATION OBJECTIVES AND CONSTITUENTS DEFINED:
  - THE GENERAL PUBLIC VIA THE MEDIA
  - REGULATORY AGENCIES
  - SCIENTIFIC COMMUNITY
  - FEDERAL LEGISLATORS (TOBACCO STATE, NON TOBACCO STATE)
  - TOBACCO GROWERS
- PRELIMINARY PLAN DEVELOPED COMPLETE
- COMPLETE TACTICAL PLAN 3/86
- INITIATE REGULATORY AGENCY/SCIENTIFIC PROGRAMS AS APPROPRIATE TBD
- IMPLEMENT PLAN 4/87

50501 3016

## PUBLIC RELATIONS/PUBLIC AFFAIRS

- RECOGNIZED HIS VIBRANTLY IMPORTANT COMPONENT OF COMMUNICATION.
- COMMUNICATION MANAGEMENT AND CONSTITUENTS DEFINED:
  - THE GENERAL PUBLIC VIA THE MEDIA
  - REGULATORY AGENCIES
  - SCIENTIFIC COMMUNITY
  - FEDERAL LEGISLATORS (TOBACCO STATE, NON TOBACCO STATE)
  - TOBACCO GROWERS
- PRELIMINARY PLAN DEVELOPED COMPLETE
- COMPLETE TACTICAL PLAN 3/86
- INITIATE REGULATORY AGENCY/SCIENTIFIC PROGRAMS  
AS APPROPRIATE TBD
- IMPLEMENT PLAN 4/87

50501 3017

## POSITIONING

### ALTERNATIVE STRATEGIC APPROACHES

#### "DOUBLE FOCUS"

- SPA IS A TRULY REVOLUTIONARY NEW CIGARETTE BRAND WHICH INTRODUCES, THROUGH THE APPLICATION OF INNOVATIVE NEW TECHNOLOGY, THE FIRST CIGARETTE PRODUCT WHICH DIRECTLY RESPONDS TO THE PRIMARY HEALTH ALLEGATION ASSOCIATED WITH CONVENTIONAL CIGARETTE PRODUCTS WHILE DELIVERING TASTE UNSURPASSED BY CONVENTIONAL FFLT CIGARETTES.

#### "ULTIMATE PRODUCT"

- SPA IS A TRULY REVOLUTIONARY NEW CIGARETTE BRAND WHICH INTRODUCES, THROUGH THE APPLICATION OF INNOVATIVE NEW TECHNOLOGY, THE FIRST CIGARETTE PRODUCT TO PROVIDE THE ULTIMATE IN CIGARETTE SMOKING ENJOYMENT BY:
  - RESPONDING DIRECTLY TO THE PRIMARY HEALTH ALLEGATION ASSOCIATED WITH CONVENTIONAL CIGARETTES.
  - DELIVERING UNSURPASSED TASTE AND SATISFACTION COMPARED TO FFLT CIGARETTES.
  - RESPONDING TO THE MAJOR SOCIAL ACCEPTABILITY ISSUES ASSOCIATED WITH CONVENTIONAL CIGARETTES.



## POSITIONING

### ALTERNATIVE STRATEGIC APPROACHES

#### "DOUBLE FOCUS"

- SPA IS A TRULY REVOLUTIONARY NEW CIGARETTE BRAND WHICH INTRODUCES, THROUGH THE APPLICATION OF INNOVATIVE NEW TECHNOLOGY, THE FIRST CIGARETTE PRODUCT WHICH DIRECTLY RESPONDS TO THE PRIMARY HEALTH ALLEGATION ASSOCIATED WITH CONVENTIONAL CIGARETTE PRODUCTS WHILE DELIVERING TASTE UNSURPASSED BY CONVENTIONAL FFLT CIGARETTES.

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  - DELIVERING UNSURPASSED TASTE AND SATISFACTION COMPARED TO FFLT CIGARETTES.
  - RESPONDING TO THE MAJOR SOCIAL ACCEPTABILITY ISSUE ASSOCIATED WITH CONVENTIONAL CIGARETTES.

PURCHASING

21 DIFFERENT SUPPLIERS

15 NEW TO RJR

50501 3020

**PURCHASING**

**21 DIFFERENT SUPPLIERS**

**15 NEW TO RJR**

50501 3021

## OPERATIONS DEVELOPMENT

- FACILITIES
- MACHINERY
- QA

50501 3022

## OPERATIONS DEVELOPMENT

- FACILITIES
- MACHINERY
- QA

50501 3023

## CURRENT STRATEGY

12/85

- CONFIRM SUBJECTIVE ASSESSMENT OF FIRST  
VS. LATTER PUFFS
- IDENTIFY CAUSES OF FIRST PUFFS OFF-TASTE  
BY SENSORY AND CHEMICAL MEANS SYSTEMATIC  
STUDY
  - LIGHTER FLAME
  - CARBON S CONTENT
  - FS BINDER
  - GF BINDER
  - PAPER BURN OFF
- MODIFY TO ELIMINATE PROBLEMS
- CONTINUE FLAVOR DEVELOPMENT EFFORTS

## EXPECTED RESULT

3-6/86

- A SLIGHTLY BLAND TASTE REMINISCENT OF TOBACCO  
SMOKE WHICH CAN BE REFINED BY SUBTLE FLAVOR  
ADDITION TO GIVE A CONSUMER ACCEPTABLE  
CIGARETTE-LIKE TASTE

## CONCLUSION

- MUCH PROGRESS SINCE 6/85
- NO EXPECTATION OF IMPACTING PROJECT TIMING/  
INTEGRITY

50501 3024

ORIGINAL SUMMARY

12/85

- ① COMPANY SELECTING ASSESSMENT OF FIRST  
TH. LAYERS FLAVOR
- ② MONITORING CHANGE OF FIRST PUFFS OFF-TASTE  
BY SENSORY AND CHEMICAL TEAMS SYSTEMATIC  
STUDY
  - LIGHTER FLAME
  - CARBON S COMMENT
  - FS BINDER
  - GF BINDER
  - PAPER BURN OFF
- ③ MODIFY TO ELIMINATE PROBLEMS
- ④ CONTINUE FLAVOR DEVELOPMENT EFFORTS

EXPECTED RESULT

3-6/86

- ① A SLIGHTLY BLAND TASTE REMINISCENT OF TOBACCO  
SMOKE WHICH CAN BE REFINED BY SUBTLE FLAVOR  
ADDITION TO GIVE A CONSUMER ACCEPTABLE  
CIGARETTE-LIKE TASTE

CONCLUSION

- ① MUCH PROGRESS SINCE 6/85
- ② NO EXPECTATION OF IMPACTING PROJECT TIMING/  
INTEGRITY

50501 3025

## PERFORMANCE OPTIMIZATION STAGE (CONTINUED)

- INCREASE FABRICATION CAPACITY TO MEET DEMANDS
  - DEVELOPMENT
  - QDA/CONSUMER TESTING
  - BA ASSESSMENT
  - AGING/SHELF LIFE STUDIES
  - FLAVOR DEVELOPMENT
- INCREASE SUPPORTING PROCESS DEVELOPMENT
  - MARUMERIZED TOBACCO
  - SPRAY DRIED EXTRACT
  - SINTERING ALUMINA
  - SUBSTRATE LOADING
- TASTE BARRIERS IDENTIFIED
  - SDE REMOVED FROM FS
  - OFF-TASTE INCREASED
  - CONSUMER TEST RESULTS/QDA
    - ~~Δ~~TASTE/AFTERTASTE
    - HARSHNESS, STRENGTH NEGATIVES

## NEGATIVE ELIMINATION STAGE

10-12/85

- MODIFICATIONS
  - BLENDS
  - ADDITIVES
  - AEROSOL FORMER
  - FLAVOR
  - PAPER
- CONSUMER TEST II
  - INCREASED ACCEPTANCE
  - DECREASED NEGATIVES
- SUBJECTIVE JUDGEMENT
  - RELATIVELY ACCEPTABLE TASTE IN LATTER PUFFS ACHIEVED
    - FIRST FEW PUFFS PROBLEMATIC

12/85



## **PERFORMANCE OPTIMIZATION STAGE (CONTINUED)**

### **● INCREASE FABRICATION CAPACITY TO MEET DEMANDS**

- DEVELOPMENT
- END-USER TESTING
- QA ASSESSMENT
- ACUTE/SHORT LIFE STUDIES
- FLAVOR DEVELOPMENT

### **● IMPROVE MANUFACTURING PROCESS DEVELOPMENT**

- MANUFACTURED TOBACCO
- SLOW DRIED EXTRACT
- SLOW DRIED ALUMINA
- SLOW DRIED LOADING

### **● TASTE BARRIERS IDENTIFIED**

- SWEETNESS FROM FS
- OFF-TASTE INCREASED
- CONSUMER TEST RESULTS/ODA
  - ~~ATMOSPHERE/ATMOSPHERE~~
  - BURNING, STRENGTH NEGATIVES

## **NEGATIVE ELIMINATION STAGE**

10-12/85

### **● IDENTIFYING**

- BLENDING
- ADJUSTIVES
- AEROSOL FORMER
- FLAVOR
- PAPER

### **● CONSUMER TEST II**

12/85

- INCREASED ACCEPTANCE
- DECREASED NEGATIVES

### **● QUALITATIVE JUDGEMENT**

- RELATIVELY ACCEPTABLE TASTE IN LATTER PARTS REVIEWED
  - FIRST FEW PARTS PROBLEMATIC

50501 3027

## R&D STRATEGY OVERVIEW

### EARLY DEVELOPMENT

- GENERAL OBJECTIVE - DEVELOP PRODUCT
  - PC-1, PC-3, AND VARIATIONS
- MODEL G DEVELOPMENT 5/85
  - INCLUDING MANUFACTURING CONCEPT
- MODEL H DEVELOPMENT 6-7/85
  - CONCEPTUALIZED
  - DUAL PATH
- H REDUCED TO PRACTICE ON LAB SCALE 7/85  
AND BENEFITS RECOGNIZED
  - SUPERIOR TASTE
  - ENHANCED FDA POSITION
  - INCREASED TOBACCO USAGE
  - DECREASED GF UTILIZATION
- H ADOPTED AS SINGLE DEVELOPMENT PATH 7/85
  - DEVELOPMENT DELAY RECOGNIZED  
AND ACCEPTED

### PERFORMANCE OPTIMIZATION STAGE

- MODIFICATIONS OF SYSTEM/COMPONENTS TO 8-10/85  
MEET PERFORMANCE GOALS AND CONFORM TO  
MANUFACTURING CONCEPT
  - AEROSOL DELIVERY
  - NICOTINE DELIVERY
  - FS CONFIGURATION
  - CAPSULE CONFIGURATION/MANUFACTURING
  - SUBSTRATE CHANGE/CORROSION
  - TASTE IMPROVEMENT

## **R&D STRATEGY OVERVIEW**

### **EMULSION DEVELOPMENT**

- **GENERAL EMULSION - DEVELOP PRODUCT**
  - **FE-1, FE-2, AND VARIATIONS**

- **MODEL 6 DEVELOPMENT**
  - **INCLUDING MANUFACTURING CONCEPT**

**5/85**

- **MODEL 11 DEVELOPMENT**
  - **CONCEPTUALIZED**
  - **DUAL PATH**

**6-7/85**

- **11 REDUCED TO PRACTICE ON LAB SCALE**  
**AND BENEFITS RECOGNIZED**

**7/85**

- **SUPERIOR TASTE**
- **ENHANCED FDA POSITION**
- **INCREASED TOBACCO USAGE**
- **DECREASED CF UTILIZATION**

- **11 ADOPTED AS SINGLE DEVELOPMENT PATH**

**7/85**

- **DEVELOPMENT DELAY RECOGNIZED**  
**AND ACCEPTED**

### **PERFORMANCE OPTIMIZATION STAGE**

- **MODIFICATIONS OF SYSTEM/COMPONENTS TO**  
**MEET PERFORMANCE GOALS AND CONFORM TO**  
**MANUFACTURING CONCEPT**

**8-10/85**

- **AEROSOL DELIVERY**
- **NICOTINE DELIVERY**
- **FS CONFIGURATION**
- **CAPSULE CONFIGURATION/MANUFACTURING**
- **SUBSTRATE CHANGE/CONVERSION**
- **TASTE IMPROVEMENT**

## PRODUCT OVERVIEW

- RESPONDS TO MAJOR ALLEGATION AND LARGEST NEGATIVE CONSUMER PERCEPTION AGAINST OUR PRODUCT/INDUSTRY.
  - DOESN'T BURN TOBACCO
  - DOESN'T PRODUCE BY-PRODUCTS OF BURNING TOBACCO
  - DELIVERS RELATIVELY SIMPLE AND INNOCUOUS SMOKE AEROSOL
  - DOESN'T PRODUCE ADVERSE BIOLOGICAL ACTIVITY ALLEGED TO BE THE PRIMARY FOCUS IN THE SMOKING AND HEALTH CONTROVERSY
- RESPONDS TO THE PRIMARY SOCIAL ACCEPTABILITY ISSUES.
  - EXHALED PRODUCT IS "CLEAN"
  - NO SIDESTREAM
  - LOW IGNITION PROPENSITY
  - NO STAINING
  - REDUCED OBJECTIONABLE ODOR
- VERY IMPORTANTLY WILL DELIVER TASTE, SATISFACTION AND RITUALISTIC BENEFITS COMPARABLE TO CONVENTIONAL FULL FLAVOR LOW TAR CIGARETTES.
- TRUE TECHNOLOGICAL INNOVATION WITH MEANINGFUL CONSUMER BENEFITS CONSISTENT WITH PERCEIVED CONSUMER WANTS.

## PRODUCT OVERVIEW

• RESPONDING TO MAJOR OBJECTION AND LARGEST NEGATIVE CONSUMER PERCEPTION AGAINST OUR PRODUCT/PROCESS.

- REDUCED TAR TOBACCO
- REDUCED POTENTIAL BY-PRODUCTS OF BURNING TOBACCO
- DELIVERING RELATIVELY SMOOTH AND TASTY SMOKE
- REDUCED POTENTIAL ADVERSE BIOLOGICAL ACTIVITY ALLEGED TO BE THE PRIMARY FOCUS IN THE SMOKING AND HEALTH CONTROVERSY

• RESPONDING TO THE PRIMARY SOCIAL ACCEPTABILITY ISSUES.

- REDUCED POTENTIAL IS "CLEAN"
- NO SMOKE
- LOW RESIDUAL PERSISTENCE
- NO STAINING
- REDUCED OBJECTIONABLE ODOR

• VERY IMPORTANTLY WILL DELIVER TASTE, SATISFACTION AND RITUALISTIC BENEFITS COMPARABLE TO CONVENTIONAL FULL FLAVOR LOW TAR CIGARETTES.

• TRUE TECHNOLOGICAL INNOVATION WITH MEANINGFUL CONSUMER BENEFITS CONSISTENT WITH PERCEIVED CONSUMER WANTS.

STATUS

50501 3032

**STATUS**

BIOLOGICAL/CHEMICAL CHARACTERIZATION

50501 3034



## BIOLOGICAL/CHEMICAL CHARACTERIZATION

50501 3035

POSITIONING/CORPORATE RESPONSIBILITY

50501 3036

~~POSITIONING~~/CORPORATE RESPONSIBILITY

50501 3037

## OVERALL PROJECT TIMETABLE SUMMARY

### KEY EVENTS

<u>KEY EVENT</u>	<u>TIMING</u>
● ALTERNATIVE PRODUCT DESIGN CONFIGURATIONS IDENTIFIED	6/85
● OPERATING DESIGN SPECIFICATIONS ESTABLISHED	7/85
● MANUFACTURING FEASIBILITY "H" PROTOTYPE	9/85
● SHELF LIFE/PACKAGE SEAL ISSUE	12/85
● CRITICAL PURCHASING PLAN COMPONENTS (CAPSULE, GLASS FIBERS AND FUEL SOURCE)	10-12/85
● FLAVOR WORK COMPLETE	6/86
● CAMOUFLAGED PRODUCT TESTING	10/85-8/86
● MARKETING ELEMENTS COMPLETE	3/86
● DEVELOPMENT PLANT OPERATIONAL	11/86
● PILOT MANUFACTURING FACILITY OPERATIONAL	4/87
● TEST MARKET	
- START	5/87
- COMPLETE	9/87
● EXPANSION	10/87

## OVERALL PROJECT TIMETABLE SUMMARY

### KEY EVENTS

#### KEY EVENT

#### TIMING

- ALTERNATIVE PRODUCT DESIGN CONFIGURATIONS IDENTIFIED 6/85
- OPERATING DESIGN SPECIFICATIONS ESTABLISHED 7/85
- MANUFACTURING FEASIBILITY "H" PROTOTYPE 9/85
- SHELF LIFE/PACKAGE SEAL ISSUE 12/85
- CRITICAL PURCHASING PLAN COMPONENTS (CAPSULE, GLASS FIBERS AND FUEL SOURCE) 10-12/85
- FLAVOR WORK COMPLETE 6/86
- CAMOUFLAGED PRODUCT TESTING 10/85-8/86
- MARKETING ELEMENTS COMPLETE 3/86
- DEVELOPMENT PLANT OPERATIONAL 11/86
- PILOT MANUFACTURING FACILITY OPERATIONAL 4/87
- TEST MARKET
  - START 5/87
  - COMPLETE 9/87
- COMMERCIAL 10/87

50501 3039

PROJECT ALPHA  
KEY DATE SUMMARY  
BY FUNCTIONAL AREA

\* INDICATES CHANGE  
FROM PREVIOUS REPORT

EXOTES CRITICAL ISSUE/DATE

FUNCTIONAL AREA	FUNCTION	ACTIVITY DESCRIPTION	RESPONSIBLE INDIVIDUAL	10/14/85 OP. PLAN COMPL. DATE	CURRENT ESTIMATED COMPL. DATE	REVISED BY	NOTE
10/BEHAV	TOXICOLOGY	14 DAY TEST #1-STUDY COMPLETE	SIMMONS	06-Dec-85	19-Dec-85 *	MDW	COMPLETE
10/BEHAV	TOXICOLOGY	14 DAY TEST #1-STUDY RESULTS AVAILABLE	SIMMONS	07-Jan-86	21-Jan-86 *	MDW	COMPLETE
10/BEHAV	TOXICOLOGY	14 DAY TEST #2-SELECT LABORATORY/IN-HOUSE	SIMMONS		31-Dec-85 *	MDW	COMPLETE
10/BEHAV	TOXICOLOGY	14 DAY TEST #2-3750 PROTOTYPES REQUIRED	COTHREN		15-Jan-86 *	MDW	COMPLETE
10/BEHAV	TOXICOLOGY	14 DAY TEST #2-STUDY BEGINS	SIMMONS		15-Jan-86	MDW	
10/BEHAV	TOXICOLOGY	14 DAY TEST #2-3750 PROTOTYPES REQUIRED	COTHREN		27-Jan-86	MDW	
10/BEHAV	TOXICOLOGY	14 DAY TEST #2-VERBAL REPORT	SIMMONS		07-Apr-86 *	MDW	
10/BEHAV	TOXICOLOGY	14 DAY TEST #2-FINAL RESULTS AVAILABLE	SIMMONS		29-May-86 *	MDW	
10/BEHAV	TOXICOLOGY	14 DAY TEST #3-SELECT LABORATORY	SIMMONS		15-Jan-86 *	MDW	COMPLETE
10/BEHAV	TOXICOLOGY	14 DAY TEST #3-LEGAL PREPARE CONTRACT	JOWDY		20-Jan-86	MDW	
10/BEHAV	TOXICOLOGY	14 DAY TEST #3-CONTRACT SIGNED-BATTELLE NW	SIMMONS		01-Feb-86	MDW	
10/BEHAV	TOXICOLOGY	14 DAY TEST #3-6000 PROTOTYPES REQUIRED	COTHREN		21-Feb-86	MDW	
10/BEHAV	TOXICOLOGY	14 DAY TEST #3-STUDY BEGINS	SIMMONS		15-Feb-86	MDW	
10/BEHAV	TOXICOLOGY	14 DAY TEST #3-6000 PROTOTYPES REQUIRED	COTHREN		22-Feb-86	MDW	
10/BEHAV	TOXICOLOGY	14 DAY TEST #3-VERBAL REPORT	SIMMONS		02-May-86 *	MDW	
10/BEHAV	TOXICOLOGY	14 DAY TEST #3-FINAL RESULTS AVAILABLE	SIMMONS		18-Jul-86 *	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #1-SELECT LABORATORY/IN-HOUSE	SIMMONS	15-Dec-85	15-Jan-86	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #1-4000 PROTOTYPES/WK REQUIRED	COTHREN	20-Jan-86	15-Feb-86	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #1-STUDY BEGINS	SIMMONS	20-Jan-86	20-Feb-86	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #1-30 DAY VERBAL REPORT	SIMMONS	25-Apr-86	16-May-86 *	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #1-90 DAY VERBAL REPORT	SIMMONS	25-Apr-86	28-Jul-86 *	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #1-FINAL RESULTS AVAILABLE	SIMMONS	21-Jul-86	16-Oct-86 *	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #2-SELECT LABORATORY	SIMMONS	15-Jan-86	15-Feb-86	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #2-LEGAL PREPARE CONTRACT	JOWDY		15-Feb-86	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #2-CONTRACT SIGNED-BATTELLE NW	SIMMONS	01-Feb-86	01-Mar-86	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #2-6000 PROTOTYPES/WK REQUIRED	COTHREN	10-Feb-86	17-Mar-86 *	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #2-STUDY BEGINS	SIMMONS	10-Feb-86	01-Apr-86	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #2-VERBAL REPORT	SIMMONS	16-May-86	15-Aug-86 *	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #2-FINAL RESULTS AVAILABLE	SIMMONS	15-Aug-86	31-Dec-86 *	MDW	
10/BEHAV	TOXICOLOGY	90 DAY TEST #3-SELECT LABORATORY	SIMMONS	15-Apr-86	01-Mar-86 *	MDW	ON-HOLD
10/BEHAV	TOXICOLOGY	90 DAY TEST #3-LEGAL PREPARE CONTRACT	JOWDY		01-Apr-86 *	MDW	ON-HOLD
10/BEHAV	TOXICOLOGY	90 DAY TEST #3-CONTRACT SIGNED	SIMMONS	01-May-86	01-May-86 *	MDW	ON-HOLD
10/BEHAV	TOXICOLOGY	90 DAY TEST #3-5000 PROTOTYPES/WK. REQUIRED	COTHREN	19-May-86	01-Jul-86 *	MDW	ON-HOLD
10/BEHAV	TOXICOLOGY	90 DAY TEST #3-STUDY BEGINS	SIMMONS	19-May-86	14-Jul-86 *	MDW	ON-HOLD
10/BEHAV	TOXICOLOGY	90 DAY TEST #3-VERBAL REPORT	SIMMONS	25-Aug-86	02-Dec-86 *	MDW	ON-HOLD
10/BEHAV	TOXICOLOGY	90 DAY TEST #3-FINAL RESULTS AVAILABLE	SIMMONS	22-Nov-86	10-Apr-87 *	MDW	ON-HOLD
10/BEHAV	TOXICOLOGY	IN-HOUSE ENZYME TEST-5000 PROTOTYPES REQ.	COTHREN	15-Dec-85	01-Jan-86 *	MDW	CANCELLED
10/BEHAV	TOXICOLOGY	IN-HOUSE ENZYME TEST-STUDY BEGINS	SIMMONS	15-Dec-85	01-Jan-86 *	MDW	CANCELLED
10/BEHAV	TOXICOLOGY	IN-HOUSE ENZYME TEST-STUDY COMPLETED	SIMMONS	15-Mar-86	31-Mar-86 *	MDW	CANCELLED
10/BEHAV	TOXICOLOGY	IN-HOUSE ENZYME TEST-STUDY RESULTS AVAIL.	SIMMONS	15-Apr-86	30-Apr-86 *	MDW	CANCELLED
10/BEHAV	TOXICOLOGY	2 YEAR TEST-SELECT LABORATORY	SIMMONS	01-Sep-86	01-Sep-86	MDW	
10/BEHAV	TOXICOLOGY	2 YEAR TEST-LEGAL PREPARE CONTRACT	JOWDY		15-Sep-86	MDW	
10/BEHAV	TOXICOLOGY	2 YEAR TEST-CONTRACT SIGNED	SIMMONS	01-Oct-86	01-Oct-86	MDW	
10/BEHAV	TOXICOLOGY	2 YEAR TEST-5000 PROTOTYPES/WEEK REQUIRED	COTHREN	15-Oct-86	15-Dec-86 *	MDW	
10/BEHAV	TOXICOLOGY	2 YEAR TEST-STUDY BEGINS	SIMMONS	15-Oct-86	02-Jan-87 *	MDW	
10/BEHAV	TOXICOLOGY	2 YEAR TEST-VERBAL REPORT	SIMMONS	15-Oct-86	30-Jun-89 *	MDW	
10/BEHAV	TOXICOLOGY	2 YEAR TEST-FINAL RESULTS AVAILABLE	SIMMONS	01-Apr-89	30-Aug-89 *	MDW	
10/BEHAV	TOXICOLOGY	SHORT TERM TESTS-SELECT. LABORATORY	SIMMONS	15-Feb-86	31-Dec-85	MDW	

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PROJECT ALPHA  
KEY DATE SUMMARY  
BY FUNCTIONAL AREA

\* INDICATES CHANGE  
FROM PREVIOUS REPORT

NOTES CRITICAL ISSUE/DATE

FUNCTIONAL AREA	FUNCTION	ACTIVITY DESCRIPTION	RESPONSIBLE INDIVIDUAL	10/14/85 DEP. PLAN COMPL. DATE	CURRENT ESTIMATED COMPL. DATE	REVISED BY	NOTE
BIO/BEHAV	TOXICOLOGY	SHORT TERM TESTS-LEGAL PREPARE CONTRACT	JOWDY		05-Jan-86	MDN	
BIO/BEHAV	TOXICOLOGY	SHORT TERM TESTS-CONTRACT SIGNED-S&I	SIMMONS	01-Mar-86	10-Jan-86	MDN	
BIO/BEHAV	TOXICOLOGY	SHORT TERM TESTS-1000 PROTOTYPES REQUIRED	COTHREN	01-Mar-86	24-Feb-86	MDN	
BIO/BEHAV	TOXICOLOGY	SHORT TERM TESTS-STUDY BEGINS	SIMMONS	01-Mar-86	20-Jan-86	MDN	
BIO/BEHAV	TOXICOLOGY	SHORT TERM TESTS-VERBAL REPORT	SIMMONS	30-May-86	15-Mar-86	MDN	
BIO/BEHAV	TOXICOLOGY	SHORT TERM TESTS-FINAL RESULTS AVAILABLE	SIMMONS	30-Jun-86	15-Apr-86	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 14 DAY TEST-SELECT LABORATORY	SIMMONS	17-Nov-85	17-Nov-85	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 14 DAY-LEGAL PREPARE CONTRACT	JOWDY		28-Dec-85	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 14 DAY TEST-CONTRACT SIGNED	SIMMONS	01-Jan-86	01-Jan-86	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 14 DAY TEST-STUDY BEGINS	SIMMONS	20-Jan-86	20-Jan-86	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 14 DAY TEST-VERBAL REPORT	SIMMONS	03-Feb-86	23-Mar-86	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 14 DAY TEST-FINAL RESULTS AVAIL.	SIMMONS	01-Apr-86	31-Jul-86	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 90 DAY TEST-SELECT LABORATORY	SIMMONS	01-Feb-86	01-Feb-86	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 90 DAY-LEGAL PREPARE CONTRACT	JOWDY		15-Feb-86	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 90 DAY TEST-CONTRACT SIGNED	SIMMONS	01-Mar-86	01-Mar-86	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 90 DAY TEST-STUDY BEGINS	SIMMONS	17-Mar-86	17-Mar-86	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 90 DAY TEST-STUDY COMPLETED	SIMMONS	20-Jun-86	20-Jun-86	MDN	
BIO/BEHAV	TOXICOLOGY	GLYCEROL 90 DAY TEST-STUDY RESULTS AVAIL.	SIMMONS	22-Sep-86	30-Oct-86	MDN	
BIO/BEHAV	TOXICOLOGY	DROSOPHILA TEST-SELECT LABORATORY	SIMMONS	01-Apr-86	10-Jan-86	MDN	
BIO/BEHAV	TOXICOLOGY	DROSOPHILA TEST-LEGAL PREPARE CONTRACT	JOWDY		15-Jan-86	MDN	
BIO/BEHAV	TOXICOLOGY	DROSOPHILA TEST-CONTRACT SIGNED	SIMMONS	01-May-86	31-Jan-86	MDN	
BIO/BEHAV	TOXICOLOGY	DROSOPHILA TEST-1000 PROTOTYPES REQUIRED	COTHREN	02-Jun-86	24-Feb-86	MDN	
BIO/BEHAV	TOXICOLOGY	DROSOPHILA TEST-STUDY BEGINS	SIMMONS	02-Jun-86	24-Feb-86	MDN	
BIO/BEHAV	TOXICOLOGY	DROSOPHILA TEST-VERBAL REPORT	SIMMONS	02-Sep-86	23-May-86	MDN	
BIO/BEHAV	TOXICOLOGY	DROSOPHILA TEST-FINAL RESULTS AVAILABLE	SIMMONS	02-Oct-86	23-Jun-86	MDN	
OP. DEV.	MACHINERY	H-MODEL-DEVELOP MANUFACTURING CONCEPT	BAKER	15-Sep-85	15-Sep-85	WBS	COMPLETE
OP. DEV.	MACHINERY	H-MODEL-EVALUATE EQUIPMENT IMPACT	BAKER	15-Sep-85	15-Sep-85	WBS	COMPLETE
OP. DEV.	MACHINERY	H-MODEL-EVALUATE IMPACT ON PROJECT TIMING	BAKER	15-Sep-85	15-Sep-85	WBS	COMPLETE
OP. DEV.	MACHINERY	H-MODEL-DEVELOP LAB SCALE MACHINERY	BAKER	31-Oct-85	15-Dec-85	WBS	ON-GEING
OP. DEV.	MACHINERY	DEV PLANT-GLASS FIBER MATL/RJR MACHINERY	R & D	01-Nov-85	25-Jan-86	WBS	IN-PROCEE
OP. DEV.	MACHINERY	DEV PLANT-COMplete RJR MACHINERY DESIGNS	BAKER	01-Jan-86	31-Mar-86	WBS	
OP. DEV.	MACHINERY	DEV PLANT-SHIP HAUNI MACHINES	BAKER	15-Aug-86	15-Aug-86	WBS	
OP. DEV.	MACHINERY	DEV PLANT-SHIP BOSCH MACHINES	BAKER	31-Dec-85	31-Dec-85	WBS	COMPLETE
OP. DEV.	MACHINERY	DEV PLANT-SHIP RJR MACHINES	BAKER	15-Aug-86	15-Aug-86	WBS	
OP. DEV.	MACHINERY	DEV PLANT-SHIP G.D. PACKER CHANSE PARTS	BEESON		31-Oct-85	WBS	COMPLETE
OP. DEV.	MACHINERY	DEV PLANT-INSTALL/TEST MACHINES	BAKER	01-Oct-86	31-Oct-86	WBS	
OP. DEV.	MACHINERY	DEV PLANT-STARTUP/PRODUCE R&D VOLUME	BAKER/COTHREN	01-Nov-86	01-Nov-86	WBS	
OP. DEV.	MACHINERY	DEV PLANT-MODIFY MACHINERY	BAKER	01-Dec-86	01-Dec-86	WBS	
OP. DEV.	MACHINERY	PILOT-COMplete RJR MACHINE DESIGN	BAKER	01-Sep-86	01-Dec-86	WBS	
OP. DEV.	MACHINERY	PILOT-SHIP HAUNI MACHINES	BASS/BAKER	01-Mar-87	01-Mar-87	WBS	
OP. DEV.	MACHINERY	PILOT-SHIP BOSCH MACHINES	BASS/BAKER	31-Aug-86	31-Aug-86	WBS	
OP. DEV.	MACHINERY	PILOT-SHIP RJR MACHINES	BASS/BAKER	01-Mar-87	01-Mar-87	WBS	
OP. DEV.	MACHINERY	PILOT-SHIP G. D. PACKERS	BEESON		28-Feb-87	WBS	
OP. DEV.	MACHINERY	PILOT-INSTALL/TEST MACHINES	BEESON	31-Mar-87	31-Mar-87	WBS	
OP. DEV.	MACHINERY	PILOT-START PIPELINE PROD/TEST MARKET	COTHREN	01-Apr-87	01-Apr-87	WBS	
OP. DEV.	MACHINERY	PILOT-PIPELINE PROD MATL INTRODUCTION	COTHREN	01-Aug-87	01-Aug-87	WBS	
OP. DEV.	MACHINERY	PILOT-START NATIONAL PRODUCTION	COTHREN	01-Oct-87	01-Oct-87	WBS	

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## PROJECT TIMING

- OUR TIMETABLE IS SELF-IMPOSED AND VERY AGGRESSIVE.
  - ASSUMES NO MAJOR "GLITCHES"
- DEALING WITH RADICAL NEW TECHNOLOGY.
  - "ENGINEERED" AND VERY COMPLEX PRODUCT
  - REQUIRES MAJOR MODIFICATIONS TO EXISTING MACHINERY AND A NUMBER OF NEW MACHINES
  - WORKING WITH NON-TRADITIONAL COMPONENTS
  - WORKING WITH NEW SUPPLIERS
  - COMPLEX SCIENTIFIC TESTING TO SUPPORT PRODUCT CONCEPT
  - CHALLENGING FLAVOR ISSUES
  - UNIQUE SUPPORT PROCESSES
  - DIFFERENT AND EXTREMELY STRINGENT INSTRUMENTATION AND QUALITY ASSURANCE METHODS
  - CHALLENGING MARKETING ISSUES WITHIN A COMPLEX REGULATORY AND LEGAL ENVIRONMENT
  - 464 CRITICAL MILESTONES
  - NO DEPARTURE FROM OUR STANDARD FOR EXCELLENCE
- NOT A QUALIFICATION TO EFFORT BUT A REALITY.
  - GIVE 110%+

## PROJECT TIMING

### ● OUR TIMETABLE IS SELF-IMPOSED AND VERY AGGRESSIVE.

- ASSUMES NO MAJOR "GLITCHES"

### ● DEALING WITH UNUSUAL NEW TECHNOLOGY.

- "ENGINEERED" AND VERY COMPLEX PRODUCT
- REQUIRES MAJOR MODIFICATIONS TO EXISTING MACHINERY AND A NUMBER OF NEW MACHINES
- WORKING WITH NON-TRADITIONAL COMPONENTS
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- COMPLEX SCIENTIFIC TESTING TO SUPPORT PRODUCT CONCEPT
- CHALLENGING FLAVOR ISSUES
- UNIQUE SUPPORT PROCESSES
- DIFFERENT AND EXTREMELY STRINGENT INSTRUMENTATION AND QUALITY ASSURANCE METHODS
- CHALLENGING MARKETING ISSUES WITHIN A COMPLEX REGULATORY AND LEGAL ENVIRONMENT
- 464 CRITICAL MILESTONES
- NO DEPARTURE FROM OUR STANDARD FOR EXCELLENCE

### ● NOT A QUALIFICATION TO EFFORT BUT A REALITY.

- ~~TIME LINE~~

## AGGRESSIVE PROJECT MANAGEMENT APPROACH

- SEPARATE UNIT FORMED.
- INDIVIDUALS SELECTED AND DEDICATED WITHIN EACH DEPARTMENT TO WORK EXCLUSIVELY ON THIS PROJECT.
- SIMULTANEOUS PATH APPROACH AS OPPOSED TO A MORE TRADITIONAL BY-THE-BOOK METHOD.

PRODUCT	MACHINERY	FACILITIES	MARKETING
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- RISK IS INVOLVED.
- SUCCESS WILL DRIVE ENORMOUS RETURN.
- EMPLOYING SOUND/RIGOROUS MANAGEMENT PRACTICES.
  - STRONG PLANNING SYSTEM IN PLACE
    - . DEPARTMENTAL MILESTONES
    - . INTERDEPARTMENTAL LINKAGES
    - . BY CRITICAL ISSUE
- SOUND FINANCIAL CONTROLS IN PLACE.
  - MONITORING OF ALL COMMITMENTS AND AT-RISK POSITION
  - VIGILANCE ON AT-RISK POSITION RELATIVE TO CRITICAL ISSUE RESOLUTION/KEY DECISION DATES
  - ASSURE THAT CRITICAL ISSUE RESOLVED OR POTENTIAL FOR RESOLUTION VERY HIGH BEFORE SUBSTANTIVE FINANCIAL EXPOSURE CONSIDERED
- TIGHT SECURITY.

## AGGRESSIVE PROJECT MANAGEMENT APPROACH

### ● DEPARTMENTAL LIMITS FREQUENTLY

- EMPLOYEES SELECTED AND DEDICATED WITHIN EACH DEPARTMENT TO WORK EXCLUSIVELY ON THIS PROJECT.

- SIMULTANEOUS PROGRESS AS OPPOSED TO A MORE TRADITIONAL BY-THE-BORN METHOD.

PRODUCT    MACHINERY    FACILITIES    MARKETING

- RISK IS INVOLVED.

- SUCCESS WILL DRIVE ENORMOUS RETURN.

- EMPLOYING SOUND/RIGOROUS MANAGEMENT PRACTICES.

- STRONG PLANNING SYSTEM IN PLACE

- . DEPARTMENTAL MILESTONES
- . INTERDEPARTMENTAL LINKAGES
- . BY CRITICAL ISSUE

- SOUND FINANCIAL CONTROLS IN PLACE.

- MONITORING OF ALL COMMITMENTS AND AT-RISK POSITION

- VIGILANCE ON AT-RISK POSITION RELATIVE TO CRITICAL ISSUE RESOLUTION/KEY DECISION DATES

- ASSURE THAT CRITICAL ISSUE RESOLVED OR POTENTIAL FOR RESOLUTION VERY HIGH BEFORE SUBSTANTIVE FINANCIAL COMMITMENTS CONSIDERED

- TOTAL SECURITY...

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