CONTROLLING

DEFINITION OF CONTROL

the management function which allows you to ensure that you are progressing in accord with your plan

that function of a system which provides direction in conformance with the plan

the maintenance of variations from system objectives within allowable limits

CATEGORIES OF CONTROLS

PREVENTIVE CONTROLS

to prevent undesired performance before it occurs

CORRECTIVE CONTROLS

to adjust for actions already taken

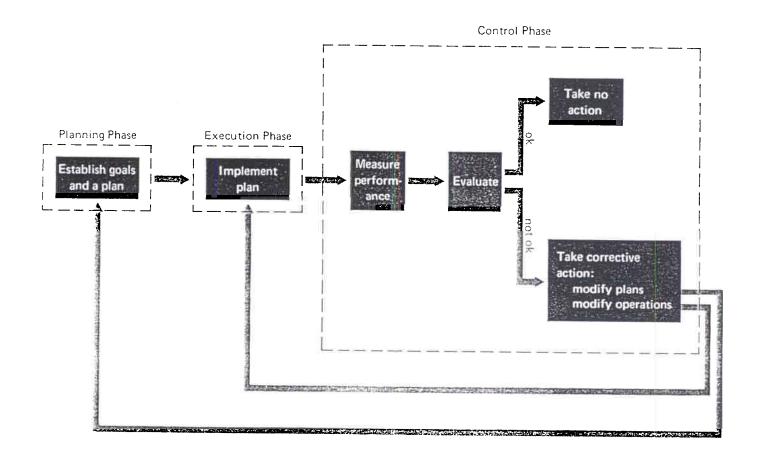
BASIC ELEMENTS OF CONTROL

Standards (desired performance)

Comparison (actual results against standards)

Corrective Action

PLANNING & CONTROL PROCESS



LEVELS OF PERFORMANCE STANDARDS

ORGANIZATIONAL Top Management

FUNCTIONAL Upper Middle Management

DEPARTMENTAL
Lower Middle Management
and Supervisory

POSITION Individual

PERFORMANCE STANDARDS EXAMPLES

ORGANIZATIONAL LEVEL

Market Share

FUNCTIONAL LEVEL
Sales Volume

DEPARTMENT LEVEL
Advertising Expenditures
per Unit Sold

POSITION LEVEL Number of Units Sold

CHARACTERISTICS OF A GOOD CONTROL SYSTEM

Effective ruds to be controlled

Efficient

Timely

Flexible

Understandable

Tailored

Highlights Deviations

Leads to Corrective Action

GENERAL REQUIREMENTS FOR GOOD CONTROL

Top Management Support

Management Participation

Relationship with Authority

Useful Standards

Good Information

DESIGNING GOOD CONTROL SYSTEMS

- What should be controlled?
- Where should controls be concentrated?
- What are the steps in the control process?
- What are the tools and techniques to be used?

BEHAVIORAL ASPECTS OF CONTROLS

Natural resistance to controls

Rejection of organizational goals

Unattainable or unclear standards

Excessive and mechanical controls

Subjective and inaccurate data

Imbalanced controls

Management attitude

Cost

GENERAL TYPES OF CONTROL SYSTEMS

BASED ON CONTROL VARIABLE

By type of input (4.g., human resources)

By dimension of control (i.e., quality, quantity, time, cost)

By time element

(e.g., precontrole, such as fessibility studies

yes-no controle, such as legal

appeared of contracts)

EXAMPLES OF GENERAL TYPES OF CONTROL SYSTEMS

Dimension of Control	Human Resources	Financial Resources	Materials	Time	Space
Quality	Performance appraisal Psychological test Performance requirements reports Memoranda manpower inventories Accountability	Audits Work measurement reports Memoranda	Statistical quality control Visual inspection Inspection instruments Work measurement Inventory control Blueprints Reports Memoranda	Work measurement Reports Memoranda	Reports memoranda
Guantity	Time study Work measurement Performance appraisal Accountability reports Memoranda	Budgets Profit planning Audits Work measurement Reports Memoranda	Operations manual Work measurement Inventory control Blueprints Reports Memoranda	Time study Deadlines Commitments Schedules Work measurement Reports Ratios	Productivity per square foot Reports Memoranda Ratios
Time	Committees Staff meetings Standard procedure Reports Memoranda Policy manuals Organization manuals	Forecast Policy manuals Standard procedure Reports Memoranda	Operations manuals Standard procedure Reports Memoranda	Forecast Reports Memoranda Standard procedure	Standard procedure Reports Memoranda
Cost	Standard procedure Ratios Charts Performance requirements Policy manuals	Profitability accounting Return on investment Standard costs Policy manuals	Operations manuals Estimates Standard procedures Charts Ratios	Standard procedures, Charts	Cost per square foot Standard procedures Estimates Charts
	Organization manuals	Standard procedure Ratios Charts			

PRIMARY TYPES OF MANAGERIAL CONTROL SYSTEMS

PRODUCTION

FINANCIAL

HUMAN RESOURCE

TYPICAL PRODUCTION CONTROLS

INVENTORY CONTROL

How much is there and where is it?

QUALITY CONTROL

Quality of incoming, in-process,
and outgoing goods and services

CONFIGURATION CONTROL Engineering design changes

PRIMARY TYPES OF MANAGERIAL CONTROL SYSTEMS

PRODUCTION

FINANCIAL

HUMAN RESOURCE

SELECTED TYPES OF FINANCIAL CONTROLS

RATIO ANALYSIS

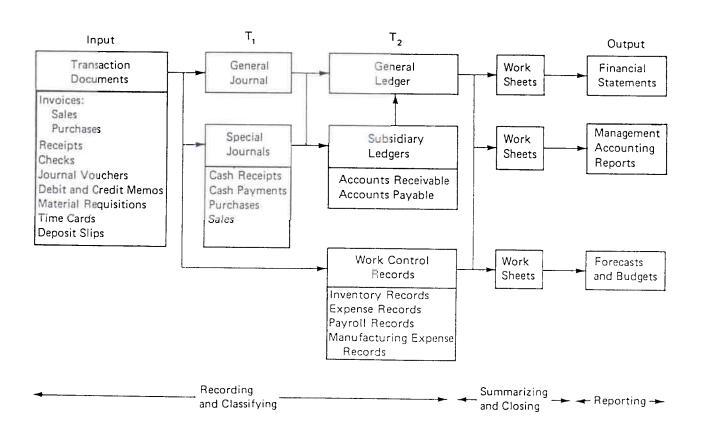
BUDGETS

BREAKEVEN ANALYSIS

CASH FLOW ANALYSIS

FINANCIAL AUDITS

PROCESS STRUCTURE OF THE ACCOUNTING INFORMATION SYSTEM



FINANCIAL RATIO ANALYSIS

Uses information from accounting statements

Ratios of values are computed

Some ratios have meaning on their own

Some ratios have comparative meaning

BASIC FINANCIAL STATEMENTS

Balance Sheet

Income Statement

Statement of Retained Earnings

Statement of Changes in Financial Position

BALANCE SHEET

Illustrates financial position on a particular date Reflects the fundamental accounting equation, $\mathbf{A} = \mathbf{L} + \mathbf{O}\mathbf{E}$

Asset	s	
Current assets		
Cash	\$ 150,724	
Securities (at cost)	99,866	\$ 250,590
Accounts receivable		416,304
Inventories (at lower of cost or market)		
Raw materials and supplies	208,046	
Work in process	182,702	
Finished goods	289,610	680,358
Prepaid expenses		29,498
Total current assets		1,376,750
Property, plant, and equipment	4,461,150	
Less accumulated depreciation and depletion	2,402,024	
Net property, plant, and equipment		2,059,126
Total Assets		\$3,435,876
Liabilities and Sto	ockholders' Equity	
Current liabilities		
Accounts payable	\$ 105,056	
Installments due within one year on debt	26,836	
Federal income and other taxes	239,194	
Interest	7,702	
Other accrued liabilities	113,066	
Total current liabilities		491,854
Long-term debt		968,664
Total Liabilities		\$1,460,518
Stockholders' equity		· •
Capital stock	505,130	
Retained earnings	1,470,228	1,975,358
Total liabilities and equity		\$3,435,876

INCOME STATEMENT

Illustrates results of operations for a specified time period

Gross sales	\$3,246,386	
Less returns and allowances	150,050	
Net sales		\$3,096,336
Less expenses and cost of goods sold		
Cost of g∞ds sold		
Depreciation and depletion		
Selling expenses	104,500	
General and administrative expenses	180,076	2,545,454
Operating profit	550,882	
Plus interest and other income	59,480	
Gross income	610,362	
Less interest on long-term debt	33,260	
Income before taxes	577,102	
Provision for federal income taxes	261,142	
Net income	315,960	
Retained earnings January 1, 1990	1,370,988	
		1,686,948
Dividends declared	216,720	
Retained earnings December 31, 1990	1,470,228	