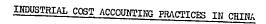


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Chi-hua Ch'eng-pen Hui-chi Chiao-ch'eng (Textbook on Planned Cost Accounting) Shanghai, Jul 1952

Ch'en Ch'i-hsiang

[Summary: This report contains information on industrial cost accounting practices in China up to August 1951. Among the subjects discussed are the following: cost and price components; definition of cost items; itemization of accounts; cost and financial plans; fixed and working capital; construction and major repair expenditures; and depreciation and amortization. A sample profit and loss statement, balance sheet, and working papers are appended.]

I. INTRODUCTION

A. Meaning of Economic Accounting System

The economic accounting system is a unified system of calculation, combining the calculation of production costs, of commodity sales, of factory financial management, and of accumulations for expanded production. The system enables one to determine not only whether a product shows a profit or loss but also the reasons for its profit or loss. Thus the economic accounting system is an important tool for ascertaining working efficiency. Its principal objective is to expand production and increase social wealth by economizing on raw materials, reducing waste, lowering costs, raising product quality and production efficiency, speeding up the process of commodity sales, and increasing enterprise profits.

B. The Role of Cost Accounting

Cost accounting is the scientific and systematic calculation of costs and the recording of financial operations. It provides an accurate check on the implementation of cost and financial plans and facilitates increased production, lowered costs and the accumulation of capital.

Cost accounting differs from general accounting in five respects.

1. Cost accounting employs the perpetual inventory system; that is, when showing such asset accounts as materials, goods in process, and finished goods, calculations are made on the basis of book inventory. In general accounting it is necessary to take physical inventories at the time the books are closed.



- 2. Detailed recording of costs facilitates the discovery of causes of waste.
- 3. From cost records, it is possible to ascertain better production methods, and thereby lower cost standards.
- 4. Cost accounting reveals the required amounts of materials and other cost items, which are then incorporated in the national economic plan.
- 5. On the basis of cost calculations, wholesale prices can be determined so as to insure the fulfillment of accumulation (profit) quotas.

C. Plan Cost

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For cost accounting to be effective, it must make clear the achievements and deficiencies of the various shops and departments in an enterprise. Therefore, the enterprise must lay down production goals for its shops and departments, calculate expenditures on a monthly basis, and compare these expenditures with the results of production. Determining production goals in this way produces the cost plan, which is then compared with the actual cost. The cost plan becomes an index for production.

In a New Democratic society, administrative and sales costs, as well as enterprise production costs, are planned and included in the cost of products. This then becomes an important source of information for the state in determining price policies.

II. COST AND PRICE COMPONENTS

One of the main objectives of the economic accounting system is to encourage enterprises to increase their profits. These profits represent the surplus product created by the workers in enterprises and consist of the differential between the planned selling price of the product and the cost of the product.

A. Cost-Finding Formulas

The formula for calculating the cost components of price are as follows:

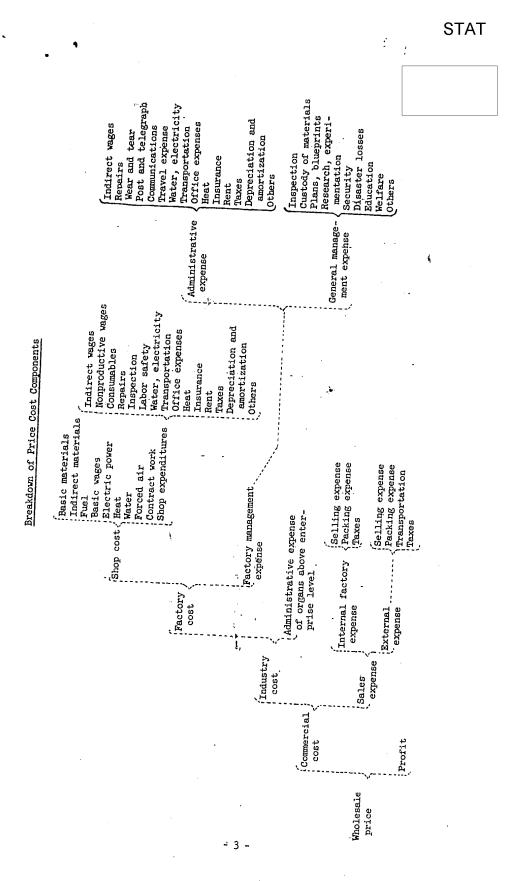
- 1. Shops costs plus factory management expenses equals factory cost
- 2. Factory cost plus allotted expenses of administrative organs above the enterprise level equals industry cost
 - 3. Industry cost plus sales expenses equals commercial cost
 - 4. Commercial cost plus profits equals wholesale price

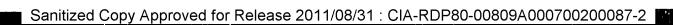
B. Breakdown of Price Cost Components

The above formula shows how the speur price cost components are calculated. A further breakdown of these components is given in the chart which follows.



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III. FACTORY AND ADMINISTRATIVE ORGANIZATION

A. Types of Organization

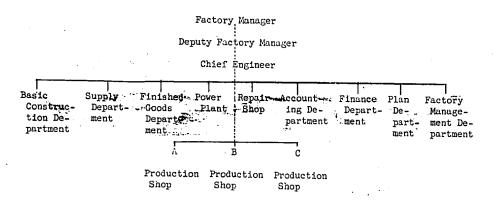
Organizational units which figure in the production process may be classified as follows:

- 1. Production shops -- shops that engage directly in production. Examples in the machine industry would be casting shops, metalworking shops, machine shops, etc.
- 2. Supplementary shops and departments -- units that team up with production shops in the production process. Generally, they are electric power shops, repair shops, supply departments, finished product departments, financial departments, accounting departments, planning departments, and factory management departments.
- 3. Administrative departments $\operatorname{\mathtt{--}}$ administrative organs above the enterprise level, such as bureaus, companies, etc.
- $\,$ 4. Sales departments -- departments that undertake the selling of the finished product.

In addition, basic construction departments may be established, with the exclusive responsibility of carrying on basic construction work.

B. Typical Factory Organization

Although a more advanced organizational structure was introduced in the Northeast Administrative Area in 1951, the most common type of factory organization is shown on the following chart:





Shops and departments listed above that do not directly engage in production have the following functions:

- 1. Power plant -- responsible for supplying and regulating flow of electric power
 - 2. Repair shop -- responsible for normal factory repair work
- Supply department -- responsible for procurement, purchasing, transportation, custody, and storage of materials
- 4. Planning department -- responsible for technical and research plans, estimates, and inspection
- Finance department -- responsible for keeping capital transfer, receipts, and disbursements accounts
- Accounting department -- responsible for cost estimates, accounting records and reports, and statistical work
- 7. Finished goods department -- responsible for the storage and shipment of finished goods
- Factory management department -- responsible for drawing up and administering plans pertaining to labor management and labor welfare.

IV. COST ITEMS

A. Official List of Cost Items

The 13 cost items listed below have been selected from the unified accounting systems of the Ministry of Heavy Industry, Central People's Government, and the Department of Industry, Northeast People's Government.

- 1. Basic materials
- 2. Indirect materials
- 3. Fuel
- 4. Basic wages
- 5. Electric power
- 6. Steam
- 7. Water
- Forced air
- 9. Contract work
- 10. Shop expenditures
- 11. Factory management expense
- 12. Administrative expense of organs above the enterprise level
- 13. Sales expense



B. Cost Item Definitions

- 1. Basic materials -- materials used directly in the production process and going to make up the main body of the product. They include raw materials, processed materials, and semifinished goods (either purchased or manufactured on the premises).
- Indirect materials -- materials used directly in the production process, but not in the main body of the product.
- 4. Basic wages -- wages paid for labor directly engaged in the production process, including bonuses, wages for extra shifts, and subsistance payments.
 - 5. Electric power -- power used directly in the production process.
 - 6. Steam -- steam used directly in the production process.
 - 7. Water -- water used directly in the production process.
 - 8. Forced air -- forced air used directly in the production process.
- 9. Contract work -- occurs when equipment needed to manufacture a given item is lacking and another factory is commissioned to do the work.
- 10. Shop expenditures -- in addition to the nine cost items listed above, shop costs include shop expenditures which can be broken down as follows:
- production work, such as technical personnel, record keepers, etc. Includes regular wages, bonuses, and subsistance payments.
- b. Nonproductive wages -- regular wages paid to workers absent from production work for officially approved reasons. Examples are workers injured on the job, attending conferences, on sick leave, receiving pay when production closes down for 5 days or less, attending marriages or funerals, etc.
- directly in the production process. Also includes sums set aside on a monthly classified as fixed assets.
- $\mbox{d. Repairs}$ -- includes expense for miscellaneous repairs necessary to maintain production
 - e. Inspection -- all expenses incurred in shop inspection work
 - f. Labor safety
- g. Water and electricity -- cost of water and electricity not directly used in the production process
- h. Transportation -- all transportation expense within the factory incurred during the production process
 - i. Office expense -- includes expense for paper, ink, notebooks, etc.
 - j. Heat -- shop heating expense



- k. Insurance -- includes expense for short-term insurance of fixed assets against flood, fire, and other disasters and periodic payments into the insurance fund for future insurance expense.
 - 1. Rent -- expense for lease of property by the shop.
- m. Taxes -- includes taxes levied according to quantity of production and various taxes to be borne by the shop.
- n. Depreciation and amortization -- includes deductions for depreciation of fixed assets, major repairs, expense of initiating production, and deferred expenses.
 - o. Other expenses

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- 11. Factory management expenses -- expenses which may be listed under two main headings.
 - a. Administrative expenses
- (1) Indirect wages -- includes all types of wages paid to personnel engaged in the management of production
- (2) Repairs -- expenses for miscellaneous repairs carried out in the management department $\dot{}$
- (3) Wear and tear -- monthly expenditures for wear and tear on tools and instruments of the management department which are not classified as fixed assets
- (4) Post and telegraph -- expense for such items as telegrams, telephone calls, postage, etc.
 - (5) Communications
 - (6) Travel expenses
- (7) Water and electricity -- expense for electricity and water used by the management department
- (8) Transportation -- includes charges on articles shipped by management department
- (9) Office expenses -- cost of paper, notebooks, etc. used by
 - (10) Heat
 - (11) Insurance
 - (12) Rent
- (13) Taxes -- includes taxes paid by management, such as building tax, public welfare contributions, etc.
- (14) Depreciation and amortization -- includes deductions for depreciation of fixed assets, major repairs, and expense of initiating production
 - (15) Other expenses



- General management expenses
 - (1) Inspection -- expense incurred in inspection of products
 - (2) Custody of materials
 - (3) Plans and blueprints
 - (4) Research and experimentation
 - (5) Security

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- (6) Accidents -- funds for losses due to accidents must be provided in each cost calculating period
- (7) Education -- expenses of schools and training courses estab-
- welfare (8) Welfare -- all expenses incurred in providing for employee
 - (9) Other expenses
- 12. Administrative expenses of organs above the enterprise level -- the expenses of such superior administrative organs as bureaus, companies, etc. are prorated among their subordinate enterprises. They are kept separate from the expenses of the management of individual enterprises.
 - 13. Sales expenses. These also may be listed under two main headings.
- a. Internal factory expense -- in each cost calculation period, these are entered into goods in process or finished goods
- department (1) Selling expense -- all normal expenses incurred by the sales
 - (2) Packing expenses
 - (3) Taxes -- includes taxes levied during the sales process
- b. External expenses -- expenses which are entered into inventory stored outside the factory in each cost calculation period.
- (1) Selling expenses -- includes expenses of sales departments located outside the factory
 - (2) Packing expenses
 - (3) Taxes
- (4) Transportation -- expenses of shipping goods from point of origin to destination

V. GENERAL LEDGER ACCOUNTS

A. Itemization of Accounts

The cost items enumberated above are the objects of cost calculation and do not reveal the entire process connected with production costs. For example, since they do not reveal the origin and use of operating capital, cost items are merely a part of the accounting process.

The position of cost items in the accounting process may be seen in the following list of accounting items used in the "Unified Accounting System of the Ministry of Heavy Industry of the Central People's Government."

General Ledger Accounts

1. Assets

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11. Fixed assets

- 1101 Land
- 1102 Buildings and installations
- 1102.1 Depreciation reserve -- buildings and installations
- 1103 Machinery and equipment
- 1103.1 Depreciation reserve -- machinery and equipment
- 1104 Power equipment
- 1104.1 Depreciation reserve -- power equipment
- 1105 Transportation equipment
- 1105.1 Depreciation reserve -- transportation equipment
- 1106 Miscellaneous equipment
- 1106.1 Depreciation reserve -- miscellaneous equipment
- 1107 Basic construction awaiting settlement
- 1108 Unfinished basic construction
- 1109 Miscellaneous capital expenditures awaiting settlement
- 1110 Major repair expenditures awaiting settlement
- 1111 Major repair expenditures
- 1112 Expense of initiating production

12. Current assets

- 1201 Cash in treasury
- 1202 Bank deposits
- 1203 Imprest fund
- 1204 Notes receivable
- 1205 treceivable
- 1206 racome receivable
- 1207 Current account with basic construction fund



80	Materials	
9	Materials in transit	

120

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- 120
- 1210 Unapplied transportation expenses
- Goods in process 1211
- 1212 Semifinished goods
- 1213 Finished goods
- Reprocessed goods 1214
- 1215 Secondary products
- 1216 Finished goods cost adjustment
- 1217 Other current assets

13. Other assets

- 1301 Deferred expenses
- 1302 Prepaid expenses
- 1303 Inventory of supplies
- 1304 Temporary payments
- 1305 Payments out of guaranty fund

2. Liabilities

21. Net worth

- 2101 Fixed capital
- 2101.1 Allowance for fixed capital
- 2102 Working capital
- 2103 Production profit and loss
- 2104 Operating profit and loss
- 2105 Other-profit and loss
- 2106 Current surplus and deficit
- 2107 Accumulated surplus and deficit.
- 2108 Abnormal losses
- 2109 Plan fulfillment

22. Fixed liabilities

- 2201. Payments into basic construction fund
- 2202 Payments into miscellaneous capital expense fund
- 2203 Payments into major repair fund
- 2204 Long-term loans



23. Current liabilities

- 2301 Bank overdraft
- 2302 Notes payable
- 2303 Accounts payable
- 2304 Expenses payable
- 2305 Funds payable to government
- 2306 Funds received as an agent for others
- 2307 Estimated cost of materials payable

24. Other liabilities

- 2401 Advance income
- 2402 Temporary receipts
- 2403 Payments into guaranty fund

3. Losses

Γ

31. Operating expenses

- 3101 Cost of goods sold -- finished goods
- 3102 Cost of goods sold -- semifinished goods
- 3103 Cost of goods sold -- secondary products
- 3104 Repair cost
- 3105 Adjusted cost of goods sold
- 3106 Production expenses
- 3106.1 Basic materials
- 3106.2 Secondary materials
- 3106.3 Fuel
- 3106.4 Basic wages
- 3106.5 Electric power
- 3106.6 Steam
- 3106.7 Water
- 3106.8 Forced air
- 3106.9 Contract work
- 3106.10 Shop expenditures
- 3106.11 Factory management expense



- 11 -

3106.12 Administrative expenses of organs above the enterprise level

3106.13 Sales expenses

3107 Production shop costs (by production shop units)

3108 Supplementary shop and department costs (by production and department units)

3109 Administrative department costs

3110 Sales department costs

32. Nonoperating expenses

3201 Financial expenses

3202 Errors in price estimates

3203 Price differential

3204 Inventory loss

3205 Asset sales loss

3206 Allocations shortage

3207 Other nonoperating expenses

4. Income

Γ

41. Operating income

4101 Sales income -- finished goods

4102 Sales income -- semifinished goods

4103 Sales income -- secondary products

4104 Income for repairs

4105 Other operating income

42. Nonoperating income

4201 Financial income

4202 Errors in price estimates

4203 Inventory gain

4204 Asset sales profit

4205 Allocations overage

4206 Cther nonoperating income

B. Classification of Accounts

The accounting items listed above may be classified according to their economic content. This may be presented in chart form as follows.



3106.12 Administrative expenses of organs above the enterprise level

3106.13 Sales expenses

3107 Production shop costs (by production shop units)

3108 Supplementary shop and department costs (by production and department units)

3109 Administrative department costs

Sales department costs

32. Nonoperating expenses

3110

3201 Financial expenses

3202 Errors in price estimates

3203 Price differential

3204 Inventory loss

3205 Asset sales loss

3206 Allocations shortage

3207 Other nonoperating expenses

4. Income

Γ

41. Operating income

4101 Sales income -- finished goods

4102 Sales income -- semifinished goods

4103 Sales income -- secondary products

4104 Income for repairs

4105 Other operating income

42. Nonoperating income

4201 Financial income

4202 Errors in price estimates

4203 Inventory gain

4204 Asset sales profit

4205 Allocations overage

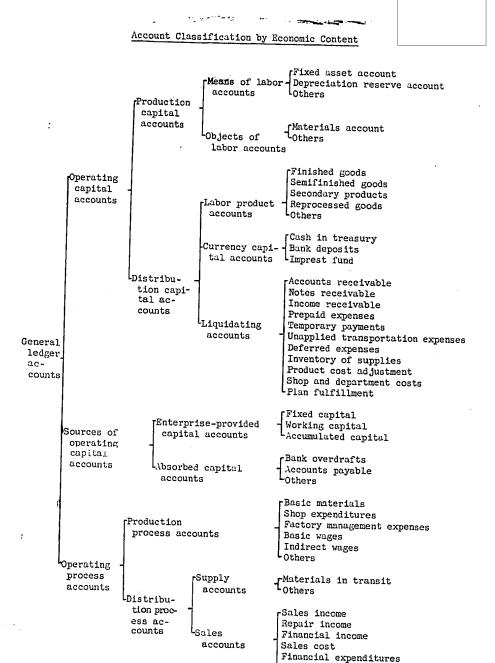
4206 Other nonoperating income

B. Classification of Accounts

The accounting items listed above may be classified according to their economic content. This may be presented in chart form as follows.



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VI. COST AND FINANCIAL PLANS

A. Product Cost Plan

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To meet the requirements of the national economic plan, cost plan norms fall into two major categories: quantity and value. In setting the norm for quantity of production, the criterion is what the labor force, with normal exertion, can be expected to attain. The norm for value or cost usually falls between the previous plan period's average cost and minimum cost.

B. Product Cost Reduction Plan

Cost reduction quotas are established by comparing this period's costs with the preceding period's costs. The preceding period for a 1951 cost plan with the process of the base year. However, to achieve a valid comparison, cost item prices of the base year must be adjusted so as to conform Justed in terms of the plan year. For example, base year wages must be adjusted in terms of the value of the wage unit at the time the plan is being

An illustration of cost reduction in a factory cost plan follows.

Average unit cost of	Quantity (Items)	Unit Cost (Yuan)	Total Cost (Yuan)
basic materials in 1950	19	10	190
Average unit cost of basic materials in 1951	16		190
	16	10	160
Difference [cost reduct:			三年 章
m.	ron l		30

The plan price of cost items in the cost plan is also called the fixed or constant price. Before an enterprise draws up a product cost plan, the plan price is determined on a higher level and is forwarded to the enterprise. The cost be 10 percent, comparing plan year costs with base year cost, then the enterprise must draw up a cost reduction plan showing in detail how the reductions

C. Plan Price Cost and Actual Price Cost

The procedures for calculating plan price costs and actual price costs are as follows.

- 1. Plan price costs are calculated on the basis of base year [often usually the preceding year] plan prices, and become the constant or fixed cost for this year. In this way, progress in fulfilling the plan can be measured with no need to allow for changes in the prices of materials.
- a. Prices of basic materials, indirect materials, fuel, electric power, steam, and forced air are all calculated on the basis of plan prices.
- b. Prices of products manufactured by the factory and used in production are, upon approval of higher organs, calculated on the basis of plan prices.



- c. Depreciation and amortization are calculated according to the plan figure. Deferred expenses are calculated on the tasis of the plan price cost of the month in which they are incurred.
- d. Wages and other expenses that cannot be treated as price items are to be calculated on the basis of the value of wage units in the area in question.
- Actual price costs are calculated on the basis of actual disbursements.
 Commodity's selling price.
- a. Expenses for basic materials, indirect materials, fuel, wages, electric power, steam, water, forced air, and other items are all calculated on the basis of actual disbursements.
- b. Prices of finished and semifinished goods manufactured by the factory and used in production are, upon approval of higher organs, calculated on the basis of the allocation price. If approval is not forthcoming, they are calculated on the basis of actual cost.

D. Income and Expenditure Plan

For the purpose of effecting control of currency income and expenditure, enterprise units must prepare receipts and disbursements plans on a quarterly basis. After approval by superior administrative organs, the plans will be sent to the People's Bank to serve as a basis for receipts and disbursements.

Items used in income and expenditure plans have been standardized by the People's Bank as follows.

- 1. Income items
- a. Previous periods's treasury cash -- any cash in treasury left over from previous period; enter as cash
 - b. Previous period's bank balance -- enter as transfer
 - c. Appropriations from superior organs -- enter as transfer
- d. Increase in capital -- any increase in capital allocated by the government or superior organs
 - e. Business income -- any income from sale of goods, etc.
 - f. Other income -- miscellaneous, such as interest
 - 2. Expenditure items
 - a. Wage payments .
 - b. Expenditure for purchase of agricultural products
 - c. Expenditure for purchase of nonagricultural products
 - d. Basic construction expenditures
 - e. Expenditure for repairs -- any expense for major repairs
- f. Administrative expense -- all administrative expenses except those for wages $% \left(1\right) =\left(1\right) \left(1\right) \left$



- g. Business expenses
- h. Funds paid in -- any profits, depreciation, etc., paid in; enter as
- Pensions, welfare expenditure -- all employee pension, welfare, insurance, etc., payments
 - J. Repayment of bank loans -- enter as transfer
 - k. Other expenses -- miscellaneous expenses
 - 1. This period's treasury cash -- enter as cash
 - m. This period's bank balance -- enter as transfer

VII. FIXED AND WORKING CAPITAL

A. Separation of Fixed Capital From Working Capital

Just as basic construction capital must be kept distinct from operating capital, so, in the operating capital sector, fixed capital must be kept separate from working capital.

Fixed capital appears as means of labor production, and also as fixed assets. Working capital appears in three forms: in the form of raw materials, fuel, and other materials purchased and stored in the production preparation stage; in the form of unfinished goods (goods in process and semifinished goods) in the production stage; and in the form of finished goods, commercial products, cash, transfers, and bank drafts in the circulation stage.

If working capital and fixed capital are mixed, there is no way to determine whether the amount of working capital conforms to production requirements. Naturally, working capital is supplied not only by the enterprise itself, but also comes from external sources. But first of all, that portion to be supplied by the enterprise must be accurately determined. And if the sources of capital accounts of a state-operated enterprise are mixed, it is necessary, as a cost accounting preliminary, to make a division between fixed and working capital.

B. Revised Balance Sheet Used in New Accounting System

The first of the two balance sheets which follow was drawn up by the Hung-hsing Factory, 31 December 1950, using the old accounting system. The second is a balance sheet of the new type, drawn up so as to indicate the division between fixed and working capital.



Adjoins page 18 here.

138,000

Machinery and equipment

Factory
Hung-hsing
of
Sheet
Balance

1. Original balance sheet

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Total	ممر ربد				5	000,00	900	45,000	2,240,000				
Amount	165,000	45,000	55,000	50,000		15,000	20067	45,000		2,118,500	105,000	יטיי אר	
Liabilities (1,000 yuan) Current liabilities	Accounts payable	Notes payable	Bank overdraft	Expenses payable	Deferred liabilities	Advance receipts	Fixed liabilities	Long term credits	Capital and net worth	Government capital	This period's surplus and deficit	Accumulated surplus	and deficit
<u>rotal</u> 1,325,000	٧.	-				297,000					993,000		,
Amount	15,000	160,000	180,000 .	355,500	614,500		50,000	000,06	57,000	000,001		000,004	295,000
Assets (1,000 yuan) Current assets	. Cash in treasury	Motor deposits	Notes receivable	Accounts receivable	Materials	Deferred assets	Prepaid expenses	Inventory of supplies	Expense of initiating production	Major repair expenses	Fixed assets	Land	Buildings and installations



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	200

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85,000	75,000
romer edulpment	Transportation equipment

0tal 2,615,000

Balance Shaet of Hung-hsing Factory

2. Revised balance sheet

2,615,000

Total

,		
)		
		•

Total	000	400,000			·	7000		315,000	
Closing Figure Amount Tota		150 000	968,500	100 E	702,000		45,000		165,000
Liabilities (1,000 yuan)	Net worth	Fixed capital	Working capital	This periods's surplus and deficit.	Accumulated sur-	Fixed liabilities	Long term credits	Current liabilities	Accounts payable
Increase or Decrease	15.				,, -		•		
Opening Figure				•				•	
Figure - Total	1,150,000								
Closing Figure		400,000	295,000	138,000	85,000	75,000	57,000	100,000	
Assets (1,000 yuan)	Fixed assets	Land	Bulldings and installations	Machinery and equipment	Power equipment	. equipment	Expense of initi- ating production	Major repair ex-	penses
		• •					٠.		

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G.	T/	١Т	
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				15,000				2,615,000	
	45,000	55,000	50,000		15,000				
	Notes payable	Bank overdraft	Expenses payable	Other liabilities	Advance receipts			Total	
Zajoins page 18 here.√			-						
	1,325,000					140,000		2,615,000	

160,000

Bank deposits

Notes receirable

355,500

Accounts receivable

614,500

50,000

Prepaid expenses

Materials Other assets

15,000

Cash in treasury

Current assets



Inventory of supplies 90,000

Tota1

The item "government capital" in the first sheet combines both fixed and working capital. The first step in separating the two is to revalue the fixed assets, and enter the resulting figure in the new account "fixed capital." All lows.

Debit: Government capital

Credit: Fixed capital Working capital

When the government newly transfers an existing factory to the management of an enterprise, the entries are made as follows.

Debit: Fixed assets

Credit: Fixed capital

Debit: Current assets

Credit: Working capital

After the work of separating fixed and working capital has been completed, the asset and liability accounts are entered as shown on the revised balance sheet.

VIII. CONSTRUCTION AND MAJOR REPAIR EXPENDITURES

A. Construction Expenditures

An enterprise must distinguish between its expenditures for construction and expenditures for production. Only then can costs be correctly calculated.

In general, construction expenditures fall into the following categories:

- 1. Production preparatory expenses -- this includes expenses for initiating production, major repairs, and others.
 - 2. Expenses for construction and installation of fixed assets.
- 3. Expenses for appreciation of fixed assets. This includes all expenses for the expansion, improvement, or replacement of fixed assets.

Other expenditure, if related to production during the period at hand, are regarded as production expenditures. If expenses are incurred which are connected with production in subsequent periods or are to be borne in subsequent periods, they are regarded as deferred expenses.

B. Major Repair Expenditures

When fixed assets are in need of repair and the aim is merely to maintain original productivity, these expenses are paid out of the major repair fund and not out of the construction funds.

After an enterprise has drawn up a major repair plan and its request for funds has been honored by a superior organ, the accounting procedure is as



1. At time major repair fund is received:

Debit: Bank deposit

Credit: Payment into major repair fund

2. At time major repairs are in progress:

Debit: Major repair expenditures awaiting settlement

Credit: Bank deposit

3. At time repairs are completed:

Debit: Major repair expense

Credit: Major repair expenditures awaiting settlement

Debit: Payment into major repair fund

Credit: Fixed capital

IX. DEPRECIATION AND AMORTIZATION

A. Depreciation

1

Depreciation is figured on fixed assets, such as buildings and installations, machinery and equipment, power equipment and transportation equipment. The "straight line average method" is used to calculate depreciation on a monthly basis, as shown in the following formulas.

- 1. Amount of depreciation equals (the total value of fixed assets at the beginning of the month plus the total value of new construction and replacements minus the total value of assets destroyed or surrendered) multiplied by the monthly depreciation rate.
- 2. Monthly depreciation rate equals the plan year depreciation rate multiplied by 1/12.

Employing this method, a factory might calculate its monthly depreciation in the following manner:

- 1. Total value of fixed assets at the beginning of month = 20,000,000 yuan.
- 2. Total value of new construction this month = 5,000,000 yuan.
- 3. Total value of assets surrendered = 1,000,000 yuan.
- 4. Monthly depreciation rate = 1 percent (plan year rate as 12 percent).
- 5. Amount of depreciation = $(20,000,000 + 5,000,000 1,000,000) \times 1/100 = 240,000 \text{ yuan}$.

B. Amortization

Major repair expenses and expenses to initiate production are listed under fixed assets, but they differ from such assets as buildings and equipment in that they must be amortized within a relatively short period. In calculating amortization, a limit of years is determined, generally three or at most five, and periodical deductions are made accordingly.



C. The Paying in of Depreciation and Amortization Funds

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State-operated enterprises carrying out the economic accounting system receive basic construction capital needed for new construction, for expanded construction, and for reconstruction in the form of allocations from the state treasury. With regard to that part of depreciation which enters into the cost of a product, the enterprise pays an equivalent amount periodically into the state treasury. This serves not only to increase the ordinary income of the state treasury, but also forms a reserve for capital needed to replace fixed assets when they come obsolete. Actually, the paying in of depreciation is equivalent to the repayment by installments of fixed capital invested in the enterprise by the state treasury.

If depreciation is paid into the state treasury at the end of each month according to plan, the entry is made as follows:

Debit: Payment into state treasury basic construction depreciation fund.

Credit: Bank deposit

The amount of depreciation paid in results in a corresponding reduction in fixed capital. Therefore, it is necessary to transfer and enter this amount into the "allowance for fixed capital account" as follows:

Debit: Allowance for fixed capital

Credit: Payment into state treasury basic construction depreciation fund

If the depreciation fund system is not employed and payments are made not at the end of each month but after closing the books, then the following entries are made:

Debit: Allowance for fixed capital

Credit: Funds payable to the Government

At the time of paying in, the entry changes as follows:

Debit: Funds payable to the government

Credit: Bank deposit

On the other hand, payments into the major repair fund do not affect the amount of fixed capital, and deductions for major repair expenses are entered as follows:

Debit: Production expenditures

Credit: Major repair expenses

At the time of forwarding the deductions for major repair expenses, the entry is made as follows:

Debit: Payment into major repair fund

Credit: Bank deposit



When major repair funds are allocated from above, a temporary account is established. When the major repair work has been completed, it is then transferred to fixed capital. Then deductions for major repairs in succeeding years must be listed on the credit side of the account for major repair expenses. The amounts for amounts for fixed edeat degree in amounts for amortization are combined with the amounts for fixed asset depreciation and are paid in periodically to the state treasury. At this time, the entry is made on the debit side of the account for allowance for fixed capital, with a corresponding reduction in the fixed asset account.

The amounts for depreciation and amortization are shown on the balance sheet as follows:

Fixed capital

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Minus: Allowance for fixed capital

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The total allowance for fixed capital must equal the total depreciation and



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APPENDIX A. WORKING PAPERS (Hung-Hsing Factory, 31 January 1951)

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į	Trial Balance	ance	•	
Items	Dehi+		Adjustments	nts
Land		Credit	Debit	+:6045
	400,000,000			7700
Buildings and installations	325,000,000			
Reserve for depreciation buildings and installations		919,500		
Machinery and equipment	157,966,000			
Reserve for depreciation machinery and equipment		426,250		
Power equipment	85-000 000			
Reserve for depreciation power equipment		110,725		
Transportation equipment	75,000,000			
Reserve for depreciation transportation equipment		108,575		-
Expense of initiating production	56.744.000			
Major repair expenses	99 olik 050			
Cash in treasury	2,267,500			
Bank deposits	167,687,610			
Notes receivable	180,000,000			
	Ædjoins page 26 here.√	ere		

- 24 -

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+	1	3	-		005 010	777,700		70.1	4465,150	,	110,725		108,575							
Ralance Shee+	Debit.	-	400,000,000	325,000,000		157.900 000	000,000,000		85 000 000	00,000,00		75.000.000		56 7kl 200	00,744,000	050,046,65	2,267,500	167,876,610	180,000,000	
Statement of Profit and Loss	Credit																		27 here.7	1
Statement of	Debit																		Adjoins page 27 here.7	
tement	Credit				919,500		•	426,150		110,725			108,575							
Adjusted Statement	Debit	400,000,000	000 000 368	000,000,000		157,900,000			85,000,000		•	75,000,000		56,744,000	99,946,050	2,267,500	, 25 and and		180,000,000	
							, <u></u>	·					_							



1,199,900,000

1,875,000

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636,096,101 **3** 30,000

Unapplied transportation expenses

Finished goods

Accounts receivable

Materials

126,500,000

6,015,000

90,000,000

Supply inventory Prepaid expenses

it in

Fixed capital

STAT

	Adjoins page 27 here.	
452,411 (2)*	·	
	9,501,111 (1) 105,000,000 (5) 105,000,000	

9,501,111

45,000,000 105,000,000

16,500,000

45,000,000

3,299,946



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- 26 -

Allowance for fixed capital

Working capital

Production profit and loss

This period's surplus or deficit

Long-term loans

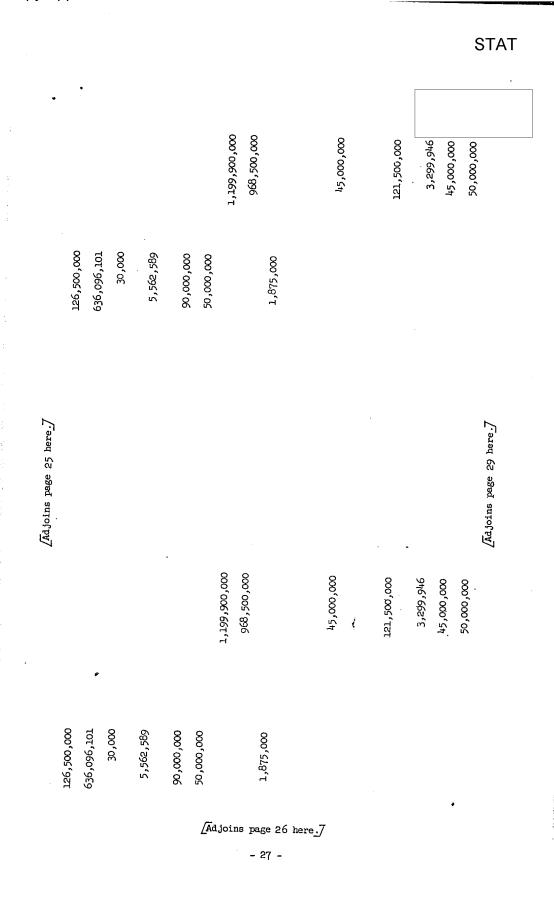
Accumulated surplus or deficit

Accounts payable

Expenses payable

Notes payable

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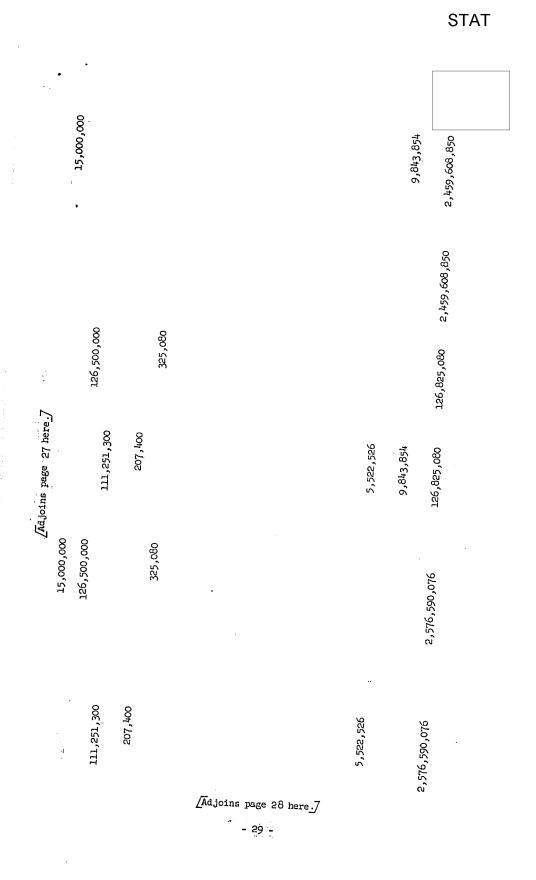


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	ZAdjoins	ZAdjoins page 26 here.			
Advance income		15,000,000			
Sales income finished goods		126,500,000			
Cost of goods sold finished goods	120,300,000			002,840,6	
Financial expenses	207,400			(5)	
Financial income		325.080			
Inventory loss	101,100			001,100	
Allocations overage		75	24 24	(3)	
Allocations shortage	153		(+)	153	∠Ād
Price differential	5,421,315			(3) 5,421,315	joins
Adjusted cost of goods produced			452,411	(3) 114,52,411	page 29
Adjusted cost of goods sold			05,048,700 07,840,6	(1) 9,048,700	9 here_
Other profit and loss			5,522,568	(1) 42	7
This period surplus			(3)	(†)	
Total	2,568,091,299	2,568,091,299	129,524,832	129,524,832	
*Numbers in parentheses we to a some					







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STATEMENT	Factory)
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APPENDIX	(Hung-Hs:

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i		Current Period			Amount to Date	Date
Items	Actual Figure	Planned Figure	Differential	Actual	Planned	
Operating income						
Sales income finished goods	126,500,000	132,825,000	-6,325,000			
Less:						
Operating expenses		•				
 Cost of goods sold finished goods	111,251,300	126,315,000	-15,063,700			
Operating profit	15,248,700	6,510,000	-8,738,700			
Plus:						
Financial income	325,080	300,000	+ 25,080			
Allocations overage	745		Q+			
Less:	15,573,822	6,810,000	+ 8,763,822			
Financial expenses	207,400	240,000	- 23,600	-1		
Allocations shortage	153		+ 153	•		
Price differential	5,421,315	+	+ 5,421,315			
Inventory loss	101,100	+	+ 101,100			
This period's surplus	9,843,854	6,570,000 +	+ 3,273,854	ų.		



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APPENDIX C.	Hung-Heing
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	<u>ullierential</u>			+48,025,000			+9,843,854							
Beginning of	161.100			1,198,025,000 1,150,000,000		968,500,000		121,500,000			45,000,000			
End of Period				1,198,025,000		968,500,000	9,843,854	121,500,000			45,000,000			
Liabilities	Net Worth Fixed capital (1,199,900,000) Less allowance		Less allowance for fixed capi-	tal (1,875,600)	Working capital	This period's surplus or deficit	Accumulated surplus or	מפדוכדנ	Fixed Liabilities	Long term loans			2 here.7	
Differential	,						⊦ 29,080,500	_					-110,725	Ædjoins page 32 here.√
Beginning of Period		400,000,000 400,000,000					295,000,000 +29,080,500			138,000,000 +19,473,750			85,000,000	
End of Period		400,000,000					324,080,500		167 147 470	471,413,150			64,889,275	
Assets			Less reserve for depreciation	Divid Advantage	installations (919,500)	Machinery and equipment (157,900,000)	Less hesemie for	depreciation	equipment (426,250)	Power equipment (35,000,000)	Less reserve for depreciation of power equipment (11,725)			
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				61,700,054		95,000,000											
		300 000 11	42,000,000	165,000,000 -161,700,054		55,000,000 -55,000,000	50.000.000	on fonds			15,000,000						
		45 000 000	more and the	3,299,946			50,000,000			1	15,000,000						
31 here./	Current Liabilities	Notes payable	•	Accounts payable		Bank overdraft	Expenses payable		Other Liabilities	Odrania i committo	Advance income						
Ladjoins page 31 here.				- 108,575		-256,000	- 53,950			12.687.610	?== (-7,687,610	-	000,000,69	1,596,101	+ 30,000	+5,562,589
			200 000	74,891,425 75,000,000		56,7 ⁴⁴ ,000 57,000,000	99,946,050 100,000,000			2,267,500 15,000,000 -12,687,610		101,007,010 160,000,000 +7,687,610	180,000,000 180,000,000	126,500,000 355,500,000+229,000,000	635,096,101 614,500,000 +21,596,101		+
			בפיול ויסא יולד	(34,015),		56,744,000	99,946,050			2,267,500	262 607 601	019,700,701	180,000,000	126,500,000	636,096,101	30,000	5,562,589
	Transportation equipment	(000,000,67)	Less reserve for	depreciation of transportation equipment (108,575)	(()(())	Expense of initiating production	Major repair expenses		Current Assets	Cash in treasury	Bank deposits		Notes receivable	Accounts receivable	Materials	Unapplied transportation expense	Finished goods
									- 3	2 -							



- 33 -

Prepaid expenses Supply inventory

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Other assets