PART 7

FINANCIAL ANALYSIS AND SOCIAL APPRAISAL

## 7. FINANCIAL ANALYSIS AND SOCIAL APPRAISAL

### 7-1 Financial Analysis

This project is to be operated as a profit-making entity run by a special body which is financially independent from ERTU. As such, it is important in this financial analysis to clarify whether or not this operating body has the ability to continue operations which are financially sound.

The target of analysis is the New TV Center which is to be constructed under this project. The analysis will not delve into the financial state of ERTU as a whole.

The evaluation covers the period beginning in 1987, when the implementation scheme is to be initiated, and terminating in 2015.

Approximately three years after the start of Phase I, a portion of the project facilities are scheduled to be completed and services are to be inaugurated. Three years after the start of Phase II, all facilities are to be completed and full-scale operations to begin.

The target of this financial analysis is to consist of the project in its entirety, that is, Phases I and II combined. A supplementary analysis will also be performed for Phase I alone, under the assumption that the first phase of the project will be given priority in view of the project's urgency and scope of construction. It is also assumed that a financial evaluation of the first phase will be required by lending institutions and other related authorities.

## 7-1-1 Model of Analysis

The structure of the model which will be used in this financial analysis is shown in Fig. 7-1. The evaluation indicators which will be applied include pro-forma cash flow table, pro-forma profit and loss statement, proforma source and application table and other financial tables, as well as the financial internal rate of return.

PROFIT/LOSS STATEMENT Prog. Cost Utility Cost Overseas Direct Cost Prog. Market Sound Tape Cost Domestic rog. Narket VIR Tape Cost Spot Total Conmercial Revenue Expenses Harket Commission Tenant Revenue Salary GOV. Refunding Maintenance Indirect Cost & Repair Interest Paid Profit/Loss before Depreciation Accumulated

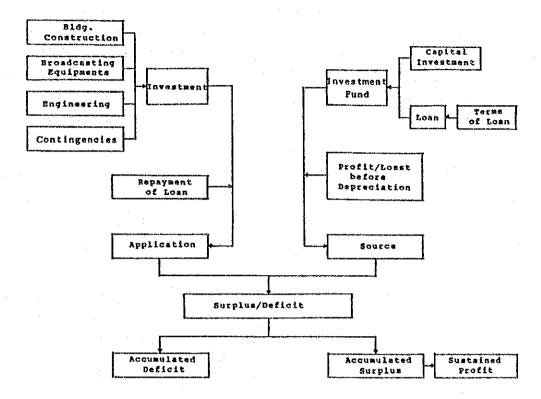
Depreciation

FIG. 7-1 PROCEDURE OF FINANCIAL ANALYSIS

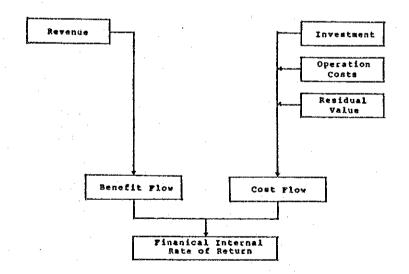
Profit/Loss after Depreciation

Profit/Loss

before/after Depreciation



#### CASH FLOW



#### 7-1-2 Construction Cost

### (1) Initial Investment

The total cost of the project, including the contingencies was estimated below. All costs were estimated at 1985 constant prices without inflation. The detailed breakdown is illustrated in Table 7-1.

;	Foreign (Million US\$)	Local (Million L.E.)	Total (Million L.E.)
Phase	86.750	53.700	166.476
Phase	11 43.250	14.314	70.538
Total	130.000	68.014	237.014

Land costs are not included in the project cost, since land for the project has already been acquired with assistance from the Egyptian Government. It is, therefore, not calculated into the residual value for the last year under analysis.

Table 7-1 CONSTRUCTION COST FOR NEW TV CENTER

(at 1985 constant prices)

Ite <b>≥</b>	F/C (M.US\$)	L/C (M.L.E.)	Total (M.L.R.)
Phase I			
1. Building Construction	42.367	48.302	103.379
2. Broadcasting Facilities	34.752	0.364	45.542
3. Engineering Fee	5.500	0.153	7.303
4. Contingencies	4.131	4.881	10.252
Sub-total	86.750	53.700	166.476
Phase II			
L. Building Construction	13.338	12.669	30.008
2. Broadcasting Facilities	25.302	0.286	33.178
3. Engineering Fee	2.550	0.058	3.373
. Contingencies	2.069	1.301	3.979
Sub-total	43.250	14.314	70.538
[otal			
L. Building Construction	55.705	60.971	133.387
2. Broadcasting Facilities	60.054	0.650	78.720
3. Engineering Fee	8.050	0.211	10.676
1. Contingencies	6.191	6.182	14.231
Total	130.000	68.014	237.014

Exchange rate: US\$ 1.0 = 1.3 L.E.

#### (2) Investment Schedule

The investment by each year is made as shown in Table 7-2 (1), which is based on the implementation schedule. The construction cost in Part 6 was estimated at 1985 constant prices. For the evaluation purpose, this construction cost (breakdown to each year) was used. As a reference, if the inflation rate of 13% for the local currency portion and 4% for the foreign currency portion is applied, the required investment is as shown in Table 7-2 (2).

Table 7-2 INVESTMENT SCHEDULE OF NEW TV CENTER

Unit: Poreign : Million US\$ Local : Million L.E.

Year	(1) 1985 pr	ices	(2) With Inflation		
	F/C	L/C	F/C	L/C	
1987	2.621	0.067	2.835	0.086	
1988	33.443	21.292	37.619	30.722	
1989	25.083	15.971	29.344	26.040	
1990	25.603	16.370	31.150	30.161	
1991	1.218	0.025	1.541	0.052	
1992	16.705	5.588	21.983	13.146	
1993	12.530	4.194	17.148	11.150	
1994	12.797	4.507	18.214	13.539	
Phase I Total	86.750	53.700	100.947	87.009	
Phase II Total	43.250	14.314	58.886	37.887	
Grand Total	130.000	68.014	159.833	124.896	

#### (3) Facility Renewal Costs

Equipment and facilities which are provided under the project must be replaced after their service life has been exhaused. This holds true for nearly all equipment for the program production, electricity, air-conditioning and sanitation facilities. The outlays required each year for such replacements are shown in Table 7-3.

Table 7-3 FACILITY RENEWAL COSTS

Unit: Million L.E.at 1985 prices

Year	Amount	Breakdown				
		Production Equipment	Electrical Pacility, etc			
2000	36.434	36.434				
2001						
2002						
2003						
2004	26.542	26.542				
2005						
2006						
2007		•				
2008	•					
2009	:	4 2				
2010	59.329	36.434	22.895			
2011						
2012		\$				
2013	50.044					
2014	32.935	26.542	6.393			
2015			•			

## 7-1-3 Estimated Operating Costs

## (1) Cost Items

The operating expenses of the New TV Center have been calculated in two categories: "direct expenses" which are directly required in program production, and "indirect expenses."

Among cost items of direct expenses, program costs occupy

the largest portion, and other expenses are further broken down into wages of operational divisions, utility costs such as electricity, sound tape costs, VTR tape cost for program sale and sales commissions relating to program domestic marketing. Indirect expenses divide into wages for administrative staff, maintenance and repair costs and miscellaneous expenses. Depreciation costs are not treated as expenses for the purpose of the benefit/cost analysis.

## (2) Calculation of Operating Expenses

The above-mentioned costs of operation were calculated as shown in Table 7-4 (at 1985 constant prices). The assumptions will be explained hereunder.

Table 7-4 OPERATING COSTS OF NEW TV CENTER

(Unit: 1,000 L.E. at 1985 prices)

								1 1		
:	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
1)Direct Cost	8199	8285	8414	8559	14050.	14265	14402	14581	14782	15003
-Direct Personnel Wage	2673	2673	2673	2673	4402	4402	4402	6402	4402	4402
-Programming Cost	4634	4634	4634	4634	7984	7984	7984	7984	7984	7984
-Utility Cost	282	282	282	282	360	360	360	360	360	360
-Sound Tape Cost	25	0	0	0	0	25	- 0	0	0	0
-VTR Tage Cost	533	637	757	892	1215	1392	1539	1700	1881	2079
-Marketing Commission	52	- 59	68	78	89	102	117	135	155	178
2)Indirect Cost	2056	2061	2067	2074	2956	2967	2973	2982	2992	3003
-Management Personnel Wage	222	222	222	222	222	222	222	222	222	222
-Maintenance and Repair	1346	1346	1346	1346	1924	1924	1924	1924	1924	1924
-Miscellaneous Cost	488	493	499	506	810	821	827	836	846	857
OTAL	10255	10346	10482	10634	17006	17231	17375	17563	17774	18007
		1								
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	8447	. 2002	2003	2004	5003	2000	. 2007	2000	2003	2010
1)Direct Cost	15279	15254	15254	15254	15254	15279	15254	15254	15254	15254
-Direct Personnel Wage	4402	4402	4402	4402	4402	4402	4402	4402	4402	4402
-Programming Cost	7984	7984	7984	7984	7984	7984	7984	7984	7984	7984
-Utility Cost	360	360	360	360	360	360	360	360	360	360
-Sound Tape Cost	25	0	0	0	0	25	0	. 0	0	0
-VIR Tage Cost	2303	2303	2303	2303	2303	2303	2303	2303	2303	2303
-Marketing Commission	205	205	205	205	205	205	205	205	205	205
2)Indirect Cost	3017	3016	3016	3016	3016	3017	3016	3016	3016	3016
-Hanagement Personnel Hage	222	222	222	222	222	222	222	222	222	222
-Maintenance and Repair	1924	1924	1924	1924	1924	1924	1924	1924	1924	1924
-Miscellaneous Cost	871	870	870	870	870	871	870	870	870	870
TOTAL	16296	18270	18270	18270	18270	18296	18270	18270	18270	18270
		,			-					
	2011	2012	2013	2014	2015			· · · · ·		<del> </del>
1)Direct Cost	15279	15254	15254	15254	15254		,			
-Direct Personnel Wage	4402	4402	4402	4402	. 4402					
-Programming Cost	7984	7984	7984	7984	7984					
-Utility Cost	360	360	360	360	360					
-Sound Tape Cost	25	0	. 0	0	0 0		•			•
-VIR Tape Cost	2303	2303	2303	2303	2303					
-Marketing Commission	205	205	205	205	2303					
2) Indirect Cost	3017	3016	3016	203 3016	205 3016					
-Management Personnel Wage	222	222	222						*	
-Maintenance and Repair	1924	1924	1924	222	222		•			
-Miscellaneous Cost	871	1924 870	1924 870	1924	1924					*
TOTAL	18296	18270		970	870					
FWITTE .	10770	10//0	18270	18270	18270				4.00	

Utility costs for the first 4 years calculate about 78% of 5th years onwards.

## a. Wages of Operational Divisions

The basis on which personnel costs were calculated is described in Table 7-5. The wages were assumed considering the average wage of the Cairo TV Center and the working conditions of the New TV Center.

Table 7-5 WAGES OF NEW TV CENTER (OPERATIONAL DIVISIONS)

Unit: 1,000 L.E. at 1985 constant prices

Personnel	Yearly Wage	No. of Employee	Amount
irst 4 years of opi	RATION		
. Supervisor	4,800	194	931
. Employee	1,800	968	1,742
Sub-total		1,162	2,673
TH YEAR ONWARDS			
. Supervisor	4,800	244	1,171
. Employee	1,800	1,795	3,231
Sub-total		2,039	4,402

Supervisor: personnel working for Program Production Div. and Engineering Div.
Employee : personnel working on contract base included

#### b. Program Costs

Program costs would vary according to each program, however it is generally, composed of performances fees, fees for authors, and scriptwriters, and materials costs such as art costs, etc. The average program costs reported by ERTU were used in this estimation as shown in Table 7-6.

During the first 4 years of operation (Phase I hereafter), the resulting costs are 4.6 million L.E. per year; beginning with the fifth year, costs rise to 8.0 million L.E. per year.

Table 7-6 PROGRAM COSTS

(Unit: 103 L.E. at 1985 constant prices)

Program	Cost/Prog.	First 4	Years	Sth Year Onward		
· · · · · · · · · · · · · · · · · · ·	(L.E.)	No.of Prog.	Amount	No.of Prog.	Amount	
l. General Program						
1) Children's Program	2,000	250	500	250	500	
2) School Education Prog.	500	500	250	1,000	500	
3) Teacher's Program	500	300	150	300	150	
4) Sophisticated Cultural Program	500			300	150	
5) Language & Vocational Prog.etc	- 500	600	300	900	450	
6) Short Prog.	80	300	24	300	24	
Sub-total		44.4	1,224	V	1,774	
3	•	1 · ·				
2. Drama and Variety		300	2 050	200	1 050	
l) Morning Serials	3,500	300	1,050	300	1,050	
2) Evening Serials	5,200			300	1,560	
3) Special Drama	10,000	100	1,000	200	2,000	
4) Special Drama	16,000	50	800	50	800	
Sub-total			2,850		5,410	
3. Spot Advertising	2,000	280	560	400	800	
Total	······································	·	4,634		7,984	

## c. Utility Costs

#### (i) Power Costs

The quantity of power to be consumed by the New TV Center per year, estimated according to the basic design, was calculated approximately, 10,800,000 kwh (30,000 kwh per day.) The annual power cost for Phase II comes to approximately 321,000 L.E. when applying the prevailing power charge scheme which are divided into contract base fee (17 L.E./MW) and consumption base costs (0.015 L.E./kWh).

#### (ii) Water Costs

The amount of water used by the New TV Center's employees and guests was estimated 286,000 m<sup>3</sup> per year. When the water cost rates currently in use (0.1 L.E. per cubic meter) are applied, the annual water charge for Phase II calculates to approximately 29,000 L.E.

### (iii) Communications Expenses

The number of telephone calls made per day was assumed to annual number, therefore, 1,000: the tallied Using the telephone 360,000 calls. rates (0.01)pound/call), the annual telephone charge thus comes to 3,600 L.E. for Phase II. Other communication expenses such as telex, etc. are actually generated. Therefore, total communication expense are estimated to each around This does not include calls made 10,000 L.E. per year. from the Center's restaurant or public phones.

## (iv) Fuel Costs

Fuel (LPG) costs are not included in the operation costs since fuel are mainly used for the restaurants and coffee shop, and accordingly they shall be born by the private tenants.

#### d. Sound Tape Costs, etc.

purchase costs of sound tapes and sound The calculated production assistance libraries are as Based on past records for ERTU, the purchase materials. volumes are to be 500 hours for each item. prices of 30LE/hr for sound tapes and 20LE/hr for sound disc libraries, related costs tally to 25,000LE per year. Additional purchases of both sound tapes and sound disc libraries are necessary every five years.

#### e. VTR Tape Costs

Costs relating to program marketing consist of the costs of VTR tape (1-inch VTR tape, primarily used for overseas marketing) and VTR cassettes (chiefly U-matic, for domestic marketing). Again relying on past records for ERTU, the unit buying price for VTR tapes is 72LE/hr and 25LE/unit for VTR cassettes. The annual costs are calculated by mutiplying the estimated number of hours of programming or the number of units.

#### f. Sales Commissions

Sales commissions paid to sales agents relating to the sales of video cassettes in home are figured at 4.5 L.E. per unit, the sales condition presented by ERTU.

### g. Wages of Administrative Staff

The basis for calculating administrative personnel wages is shown in Table 7-7. The wages were assumed on the same basis as explained in the wages of operational divisions.

Table 7-7 WAGES OF NEW TV CENTER (ADMINISTRATIVE STAFF)

Unit: 1,000 L.E. at 1985 constant prices

Personnel	Yearly Wage	No. of Em	ployee	Amount	, n <u>.</u>
1. Supervisor	4,800	29		139	
2. Employee	1,800	46	44.5	83	
Total	ter in the second	75		222	

Administrative staff:

personnel working for Administration Div. and other management staff

## h. Maintenance and Repair Costs

Maintenance and repair costs refer to costs incurred to inspect, adjust, repair and carry out parts replacement in the facilities in order to maintain them at their original level of functioning order throughout their specified service life. Accordingly, labor and material costs which are directly necessary to this purpose are included into the maintenance and repair costs.

In the case of the project at hand, annual maintenance and repair costs for the program production facilities have been set at 1% of the construction cost; for the building, 1% of the construction cost; and for electrical, air-conditioning and sanitary facilities, 1.5% of related construction costs. These figures have been selected in consideration of the facilities and design standards to be applied for the project, also taking into consideration the maintenance and repair costs incurred in similar projects.

### i. Miscellaneous Expenses

Miscellaneous expenses shall include, for example, office-related expendable, transportation costs, etc. Here, the miscellaneous costs was calculated as 5% of above-mentioned items a - h.

#### 7-1-4 Revenue of New TV Center

## (1) Types of Income

The project is expected to generate income in the five categories listed below, and no other income is included. In actual fact, other (\*1) forms of income are generated

they have been excluded, however, because of the difficulty in calculating them as income for the project or because of the extremely small percentage which such incomes are expected to contribute to the overall needs of the project.

- 1. Overseas program marketing
- 2. Domestic program marketing
- 3. Spot advertising production
- 4. Rentals of restaurant and coffee shop
- 5. Government refunding

(\*1): Miscellaneous income generated at the existing Cairo Broadcasting Center includes studio rental income, etc. It is conceivable that income of this type will also be generated at the New TV Center in the form of studio rentals to outside advertising agencies.

## (2) Calculation of Income

Table 7 - 8 shows the estimated income of the New TV Center for the above types of income based on the assumptions indicated below. All figures are given on a real term basis (1985 prices) without adjustment for inflation.

The largest component among the New TV Center's various forms of income is income derived from program marketing overseas. In 1995, such income is to account for 66% of the total. Government refundings relating to the production of general programming accounts for 27% of all income. Together, therefore, these two categories comprise 93% of the projet's overall income.

Table 7-8 OPERATING INCOME OF NEW TV CENTER

(Unit: 1,000 L.E. at 1985 prices)

4										
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
1)Harketing Program Overseas	8577	10771	13291	16094	25225	28857	31027	33272	35668	38165
2)Narketing Program Domestic	518	594	680	179	691	1022	1175	1350	1553	1787
3)Spot Advertising	1120	1120	1120	1120	1600	1600	1600	1600	1600	160
4)Rentals of Restaurant etc.	36	36	36	36	36	36	36	36	36	3
5)Government Refunding	8308	7558	6964	6493	10430	9660	9049	8564	8180	181
IOTAL	18558	20079	22093	24522	38182	41176	12887	44822	47037	1946
	2001	2002	2003	2004	2005	2006	2007	2008	2009	201
1]Harketing Program Oversess	40814	40814	40814	40814	40814	40814	40814	40814	40814	4081
2)Marketing Program Domestic	2048	2048	2048	2048	2018	2048	2018	2018	2018	204
3)Spot Advertising	1600	1600	1600	1600	1600	1600	1600	1600	1600	160
4)Rentals of Restaurant etc.	36	36	36	36	36	36	36	36	36	3
5)Government Refunding	9974	9298	8762	8337	9700	9082	8590	8200	7890	164
TOTAL	54472	53796	53260	52835	\$4199	53580	53088	52698	52388	5214
	2011	2012	2013	2014	2015					
1)Marketing Program Overseas	40814	40814	40814	40814	40814					
2)Marketing Program Domestic	2048	2048	2018	2048	2048					
3)Spot Advertising	1600	1600	1600	1600	1600					
4)Rentals of Restaurant etc.	36	36	36	36	36					
5)Government Refunding	9852	9201	8685	8276	9700					
TOTAL	54350	53699	53183	52774	54199					

### a. Conditions of Income Calculation

In calculating the operating income of the New TV Center, the following conditions are applied:

- With regard to the marketing volume or number of commercial spots to be produced, rather than carry out its own forecast the Study Team has based its estimations in general on the plans announced by ERTU. The Study Team examined the appropriateness of the estimated sales volume. The conditions underlying this estimation are summarized in Table 7 - 9.

- As for fluctuations in selling prices, in this analysis, it is estimated that 1985 prices are maintained in real term. Namely future prices are set in accordance with inflation.
- As for the commencement of operation, one year would used for preparation (formation of project consensus, capital procurement, etc.), forteen months for detailed design and tender documentation, and Ι construction. months for Phase thirty five Therefore, if the project is followed immediately by the above procedure, the operation would start in 1991. In addition, if the Phase II design starts immediately after the Phase I operation, full operation of the whole facilities would commence in 1995, considering the thirty months of the Phase II construction.

Table 7-9 OUTLINE OF CALCULATING REVENUE

	Product	Market	Narketing Amount	mount 1995	Marketing Price (1985 prices)	Marketing System
1. Market Prog. (Overseas)	VIR tape - Drama - Variety - Cultural Prog. etc.	-Overseas station in Arab world {17 countries} -African and Advanced countries (about 10 countries)	3,400 hrs -Drams: 2,346 hrs -Variety: 204 -Cultural: 850 Prog. etc.	10,000 hrs -Dramai 6,900 hrs -Variety: 600 hrs -Cultural: 2,500 hrs Prog. etc.	Drama: LE2,850/hr variety: LE2,600/hr Cultural Prog.: LE1,600/hr	Direct Sale
2. Market Prog. (Domestic)	VIR cassette -Drama -Variety -Others	Individua) consumers	ll,500 units (increase 15% pa)		LE45/unit	Sale through Agency Shop
3. Spot Com- mercial	Spot Ad. for TV	Advertisers (public & private)	280 spets	400 apota	LE4,000/spot	Direct Sale
4. Tenant Income	Restaurant and Coffee shop	Tenanks	·		x/000'9E31	
S. Government Refunding	General Prog.  -Children's ProgSchool Educa- tion ProgTeacher's ProgCultural ProgLanguage Prog. etcShort Prog.	eneral ProgHin. of Education -Children's ProgHin. of Higher -School Educa- Education tion ProgHin. of Culture -Teacher's ProgHin. of Information -Cultural ProgHin. of Information etcShort Prog.	-Children's Prog. 125 hrs -School Education 250 hrs -Teacher's Prog. 1155 hrs -Language Prog. etc.: 300 hrs -Short Prog.	1,500 hrs -Children's Prog.: 125 hrs -Teacher's Prog. : 175 hrs -Cultural Prog. : 225 hrs -School Education Prog.: 500 hrs -Language Prog. etc.: 450 hrs	Direct costs, Indirect costs, and Depreciation shall be refunded.	by agreement with the Ministries

b. Items for Consideration when Estimating Project Income

## (i) Overseas Program Marketing

According to sales records for 1984/85, approximately 5,300 hours of programming was sold overseas. included some 4,700 hours (or approximately 88% of the total) sold to the Arab nations of the Middle East and It is essential, therefore, to take this area Africa. into consideration when estimating overseas sales. of this project, the feasibility purposes achieving sales targets in the following 17 countries is countries previous these have considered: all of purchasing records as of 1984/85.

· United Arab Emirates

· North Yemen

• Iraq

• Oman

· Qatar

· Kuwait

· Saudi Arabia

· Syria

· Bahrain

· South Yemen

Jordan

Lebanon

· Algeria

• Sudan

· Tunisia

· Morocco

Mauritania

## Qualitative Analysis

According to recent data(\*2), there are 24 television broadcast channels operating in the 17 countries just listed. Nearly all of these channels are run by their respective governments, and it is these channels which are the major targets for program marketing by the New TV Center. Here, then, the prospects for future programming at these television stations will be considered, in order to analyze in qualitative terms the feasibility of attaining the sales target set for the New TV Center. This qualitative analysis will later be tied in with the quantitative analysis to be described below.

(\*2): "World Radio and Television, 1984" compiled by the Japan Broadcasting Corporation -- NHK

FIG. 7-2 BROADCASTING HOUR AT EACH STATION WITHIN ARAB WORLD

Station Name	No. of Channel	12:00	18:00	24:00	06:00
. United Asab Emirates Radio & Television	2				
. Sen's Televisios	1				
3. Iraqi Broadcasting & Television Ratablishment	2				
i. Oman Department of Broadcasting A Television	1		يدنس		
5. Hational Radio & Television Bervice of Qatar	1	·			
6. Kuwait Broadcasting & Television Bervices	2				
7. Saudi Arabian Radio & Television	1				
8. Syrian Broadcasting & Television Organization	ı				
9. Bahrain Television	2		3		
10.Democratic Yemen Broadcasting Services	1				
11.Jordan Television Cosporation	2		19 1950		
12.Tele~Liban	3				
13.Radiodiffusion Television Algerienne	1	10.00			
14.Sudan Television Services	1	į	350		
15.Radiofiffusion Television Tunisienns	ı		التعابي		
16.Radiodiffusion-Television Morocaine	1				
17.Agence Mauritanienne de Television et de Cinema	1				Ĺ

Most of the broadcasting stations referred to above were opened in the 1960s and 1970s, and most operate under governmental supervision. These governments not only

view these stations as important means of transmitting information, but also as effective means for achieving improved popular integration, national modernization, living standards and widespread education. For reason, remarkable progress has been seen since these stations were inaugurated in terms of expanding broadcast hours, increasing the number of channels, and increasing the number of television sets in operation. Particularly since about 1980, the Arab nations, supported by abundant petroleum income, have carried out extensive expansion facilities improvement of their broadcast ลทศี broadcast networks.

It should be noted, however, that when the broadcasting situations in these regions are compared with the levels in Egypt and the advanced industrialized nations, they reveal extremely shorter broadcasting hours. In terms of TV broadcasting time, the existing channels in these regions broadcast only about one-third the number of hours per day compared with channels in the advanced industrialized nations, and no more than half the number hours of broadcasting in Egypt. Ιt must remembered, however that the comparatively short broadcasting time in the Arab nations relates directly to lifestyles and customs, and it is rather unreasonable at this point of time to assume that future broadcasting time will be expanded to the same level as the advanced industrialized nations. Even so, there is a great possibility, in view of the importance placed on broadcasting in the Arab nations, that the number broadcasting hours at existing channels will be increased that the establishment of additional channels these nations will lead to increased broadcasting hours also.

As shown in Table 7 - 10, ERTU's sales records have demonstrated remarkable growth in recent years. Between 1981/82 and 1984/85 there was approximately 120% growth scored in terms of program hours sold, with the annual rate of increase exceeding 30%. This growth can be attributed to ERTU's efforts to expand overseas marketing as a major factor in the acquisition of foreign currency. And while the high growth was due in large part to new market development in Mauritania and other nations and to reopened markets in Iraq and Algeria, it is impossible to deny that the program production capability in the Arab nations is basically low. NHK's data, for example, shows that the ratios of programming produced domestically in major Arab countries were as follows:

•,	Qatar:			40%
.•	Kuwait:			60%
	Jordan			40%

Table 7-10 DEVELOPMENT OF MARKETING HOURS

Year	Marketing Hours
1981/82	2,335
1982/83	3,685
 1983/84	4,430
1984/85	5,238

Egypt, by way of contrast, is relatively well equipped in terms of technical facilities for television program production and studios, and its rate of domestic program production is relatively high. Accordingly, when the Arab nations with low rates of domestic production import

Arabic-language programs, they naturally must rely quite heavily on Egypt. In Kuwait, for example, 40% of all programming is purchased from outside the nation, including approximately 20% imported from Egypt. Similarly, Jordan and Tunisia purchase about 30% and 27%, respectively, of their programming from Egypt.

although the Arab nations place Ιn summary, importance on television as a means of transmitting information and spreading education, in most countries the capability to produce programming domestically is For this reason, strengthening this less than 50 - 60%. capability in the future is a topic of grave importance in these countries. In some countries, in addition to improving hardware facilities through the introduction of the newest equipment, steady improvement is also being made in terms of software, by producing their programs with the assistance of foreign producers and Sooner or later, such nations will achieve sufficient capability to produce their own programs.

Nevertheless, in addition to boosting program production capability through the construction of physical facilities, a number of problems remain which require time to resolve -- such as the training of personnel. For this it is predicted that reason, no structural change will take place in these countries in the short-or mid-term forecast which will allow them to reduce their heavy dependency on Egypt as a supplier of programming.

It is said that some 3 million Egyptian laborers are currently working overseas. About 90% of these workers live in the Arab nations. Also, Egyptian technicians account for a large portion of those who work at the broadcast stations of the Arab countries. These factors too are said to play a role in the great demand for Egyptian programming outside Egypt.

To summarize, as there is a development potential in TV broadcasting time in these Arab nations as well as their heavy dependency on Egypt as a supplier of programming indicates that Egyptian programs will continue to have great marketability within the Arab nations through the foreseeable future.

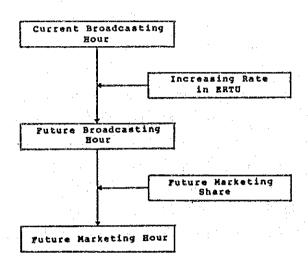
## Quantitative Analysis

As a follow-up to the preceding qualitative analysis, we will undertake a quantitative consideration of the appropriateness of the projected number of hours of programming marketable by the New TV Center. The study is based on the following pre-conditions:

- o The target sales figures indicated by ERTU are 3,400 hours of programming in 1991 and 10,000 hours in 1995.
- o In view of past regional characteristics of sales, 88% of the gross number of program hours sold are estimated to be marketed to the above-mentioned 17 Arab countries, with the remaining 12% allotted to other areas. In 1991, therfore, the number of hours of programming to be sold to the 17 Arab countries is seen to be 3,000; in 1995, 8,800 hours.
- o Overseas marketing activities of the Cairo Broadcasting Center will continue even after the New TV Center is completed. The Cairo Center has already reached saturation point in its ability to supply programming; accordingly, its marketing volume is assumed to remain at its current level of 5,000 hours, and no sharp increase is predicted.

The process by which the sales volume to the 17 Arab nations is considered is shown in the following flow chart.

FIG. 7-3 PROCEDURE OF STUDY



This process yields the following results:

## o Estimated number of broadcasting hours

Based on the above data, the number of broadcasting hours per year in the 17 Arab countries is approximately 60,000. The average number of broadcasting hours per station per day therefore figures to about 9 hours and 30 minutes. However, owing to the actual operation of 24 channels in the 17 countries, the broadcasting time per channel per day is about 6 hours and 45 minutes. This figure represents less than 40% of the daily broadcasting time of NHK and about 50% of that of ERTU.

The estimation of future broadcasting hours of these countries can be accomplished on different basis such as applying the past trend of increase of each country, or

using the past transition of broadcasting budget, etc. However, in this study, due to various constraints and lack of appropriate data, the rate of increase in the broadcasting hours of Egypt is used to estimate the future hours of these countries.

Within the Arab world, Egypt is most foward among the nations in the area of television broadcasting. Owing to the similarities in language, religion, culture and lifestyles between Egypt and the other Arab nations, the development of television broadcasting in Egypt can thus serve as a good reference for estimating the broadcasting hours of the other 17 countries.

TV broadcasting at ERTU began in 1960, followed by a Widespread the next year. channel second earliest beginning broadcasts were inaugurated in It is estimated that the two channels broadcast between 5,000 and 6,000 hours per year during the early In the last ten years, therefore, the number of approximately increased by broadcasting hours i.e., if calculated at a uniform rate, the growth during this period was about 5% per year.

If the same 5% annual growth rate is then applied to the broadcasting situation in the 17 Arab nations, in 1995 these nations will collectively be broadcasting about 102,600 hours of programming. This figure translates to 16 hours/day per station or about 12 hours/day per channel. This figure of broadcasting time per day per channel is quite close to ERTU's current broadcasting level. If, for example, six of the 11 countries which currently operate only one channel were to add a second channel, then the number of broadcasting hours per channel per day would be:

102,600 hrs/365 days/30 channels = 9.37 hrs/day.

This would appear to be a fair estimate in view of ERTU's current broadcasting volume (13 hrs/day) and could afford more increase.

Nevertheless, if this same 5% growth rate were applied without alteration to the period after 1995, then the number of broadcast hours in the year 2015 -- the last under the scope of this project -- would This result, however, would be approximately 272,000. unrealistic in view of the range of actual broadcasting But if the number of broadcasting hours increases at the above 5% rate of growth through the year 2001, then in that year the number of broadcasting hours will be about 137,000; assuming the existence of 30 channels in the 17 countries, this figure would tally to about 12.5 hours of broadcasting per day per channel -- which is quite close to ERTU's current broadcasting level. conclusion, therefore, an annual growth rate of 5% assumed through the year 2000, under the condition that there will be an increase in the number of channels in operation in the 17 countries at that time; the number of broadcast hours after 2001 will remain fixed.

#### o Estimated marketing share

Here we will consider ERTU's marketing share based on the above forecasts of broadcasting times in the 17 Arab nations. The "marketing share" here is defined as the proportion of the 17 nations' broadcasting time occupied by ERTU programming hours.

Given the market(\*3) target of 13,800 hours in the 17 nations in 1995 the estimated marketing share for that year is:

102,600 hrs x x% = 13,800 hrs Accordingly, x = 13.5%.

(\*3): marketed hours of New TV Center (8,800) + marketed hours of ERTU Cairo Broadcasting Center (5,000).

As shown in Table 7-11, ERTU's marketing share in the 17 nations at present is estimated at approximately 8%. As a result, in order to reach the preceding target (the share of 13.5% in 1995), ERTU will need to increase its marketing share at least by an average of 4.8% per year between 1984 and 1995.

Table 7-11 BROADCASTING HOUR AT EACH BROADCASTING STATION WITHIN ARAB WORLD AND SALES HOURS OF ERTU

Name of Station	No. of Channel	TV Hours	Market Hour	Market Share (%
1. United Arab Emirates Radio & Television	2	6,000 (4.5)	847	14
2. San'a Television	1	2,900 (8)	514	18
<ol> <li>Iraqi Broadcasing &amp; Television Establishment</li> </ol>	2	5,100 (7)	468	9
4. Oman Department of Broadcasting & Television	1	2,900 (8)	202	7
<ol> <li>National Radio &amp; Television Service of Qatar</li> </ol>	1	2,500 (7)	21	0.8
<ol><li>Kuwait Broadcasting &amp; Television Services</li></ol>	2	4,700 (6.5)	399	8
7. Saudi Arabian Radio & Television	1	2,400 (6.5)	361	15
<ol> <li>Syrian Broadcasting &amp; Television Organization</li> </ol>	1	2,400 (6.5)	177	7
9. Bahrain Television	2	4,700 (6.5)	175	4
O. Democratic Yemen Broadcasting Service	. 1	1,600 (4.5)	183	11
1. Jordan Television Corporation	2	5,400 (7.5)	240	4
2. Tele-Liban	3	6,500 (6)	14	0.2
3. Radiodiffusion Television Algerienne	1	3,600 (10)	345	10
4. Sudan Television Service	1	1,800 (5)	63	4
5. Radiodiffusion Television Tunisienne	1	2,500 (7)	274	<b>1</b> J,
6. Radiodiffusion-Television Morocaine	1	2,100 (6)	146	7
7. Agence Mauritanienne de Television et de Cinema	1	3,100 (8.5)	314	10
Total	24	60,200	4,743	8

Figures in parenthesis refer to broadcast hour per channel per day

The following factors may be taken into consideration for increases or decreases which can take place in marketing share:

- · Political events
- · Marketing competition from other Arab nations
- · Market trends
- · Development of new markets
- · Program content, quality, standards
- · Unit selling price
- · Marketing initiatives

As described above, between 1981 and 1984 ERTU achieved its overseas marketing unprecedented increase in that the reopening of assumed It can be figures. business between Egypt and other Arab nations and the markets, both made possible by of new development political stability, were largely responsible for previous listed factors the achievement. Among changes in marketing shares, it can be expected that sales increases will be seen in view of market trends (increases) and content/quality of programming sold; on the other hand, the remaining factors can be expected to maintain their current status, with no remarkable changes in new market development anticipated either. For this reason, it would be improper to assume that the earlier high rate of growth will continue throughout the term of the project.

Therefore, it can be viewed quite realistic from the standpoint of marketing share that the future growth rate has been set more moderately despite the high growth rate seen in recent years. Incidentally, even if the share increases at 10%, the production capability can cope with the increase up to the year 2001. But it would be unrealistic to argue, as in the case of broadcasting hours, that the marketing share will continue to increase throughout the term of the project at its current rate.

In the United Arab Emirates and North Yemen, for example, the current marketing share is 16 - 18%; here, we have estimated moderately that the marketing share in 1995 will continue at about 14%.

### o Estimated number of program hours sold

Table 7-12 shows the estimated number of program hours to be sold throughout the term of the project, based on the conclusions derived thus far. The figures given here refer exclusively to the New TV Center and do not include the marketing volumes of the Cairo Broadcasting Center.

Table 7-12 ESTIMATE OF MARKETING HOURS

	Year	Marketing Hours	
	1991	3,400	
	1992	4,270	
•	1993	5,270	
	1994	6,380	
	1995	10,000	
	1996	11,440	
	1997	12,300	
	1998	13,190	
	1999	14,140	
	2000	15,130	
	2001	16,180	

### Unit selling price, etc.

The unit selling prices for each program and the number of hours of each program sold under this project have both been set based on the past sales records of ERTU.

### (ii) Domestic program sales

For convenience, sales volume for the project has been estimated to include an annual increase in demand of 15%, based on 1984 figures and in consideration of recent sales performance, etc.

The reason for seeking such "convenience" is the lack of information relating to video deck ownership rates and data necessary to forecast future trends. And yet, income from domestic sales accounts for no more than about 2 - 4% of total sales income; therefore, even if the forecast for this portion is not as precise as might be desired, the effect on the overall forecast is minimal.

Applying the above methods, since the sales volume in 1985 was about 5,000 units, sales in the initial year of operation (1991) are estimated at 11,500 units.

## (iii) Income from spot advertising

The sales volume of spot advertising has been set as follows, in consideration of the scale of the facilities and studio operation status. Specifically, during the first phase of operation, production of spot advertising will rely on a combination of studio production (during idle hours only) and outdoor production using EFP. Together these will enable production of 280 spots per year. During the second phase of operation when the number of studios will be increased, this capability will be enlarged to 400 advertising spots per year.

The sales price is set at 4,000 L.E. a mean of present price distribution between 3,000 L.E. and 5,000 L.E.

According to ERTU, the internal production ratio is estimated to be about 75%. As the average time per commercial is 30 seconds and the average number of commercial repeats is 20 times, the number of spot commercials produced domestically each year is estimated as follows:

270 hours x 75% /20 times = 10 hours = 1,200 spots

On the other hand, the future commercial hours were estimated by the ERTU plan to be about 480 hours in accordance with the expansive of its total broadcasting time following the completion of the New TV Center.

If the internal production ratio and other factors remain unchanged, the number of future commercial spots is estimated as:

480 hours x 75% /20 times = 18 hours = 2,160 spots

If the ratio of domestically produced commercials will increase in the future, and if, it were to reach 90%, then the number would be about 2,600 spots.

From this it can be seen that the New TV Center's target of 400 commercial spots will satisfy between 28 - 40% of future demand increase, and 15 - 20% of the market share. Accordingly the target may be said to be quite within the scope of attainment in view of the resulting effects on the existing advertising agencies.

A study on television advertising has been carried out by MEAG(\*4). In view of the significance of this information in forecasting future television advertising, an outline of this study is presented as follows:

- Over 52% of all businesses employ greater than 50% of their corporate advertising expenses for television commercials.
- Nearly 70% of all businesses believe that television advertising is an effective mean of selling their products
- 82% of those businesses which do not engage in television advertising believe that such advertising is effective, but too expensive.

To summarize, the effectiveness of television advertising is clearly recognized in Egypt and, judging by previous examples in the advanced industrialized nations, its importance in overall corporate activities will continue to grow in the future.

(\*4): Conducted by Middle East Advisory Group. This study was carried out in 1982 by the request of ERTU for 919 companies in Egypt.

# (iv) Income from Restaurant and Coffee Shop (Tentants)

Operation of the New TV center's restaurant and coffee shop is to be entrusted to private tenants. These facilities are to be used primarily by employees and performers. In determining the rental fees for these facilities, the Study Team sought to propose rental terms favorable to the tenants, in order to ensure that employees and other users will receive excellent services at these facilities.

For this reason, rental fees were based on the facilities' maintenance costs and corresponding depreciation cost. It was calculated to be 36 L.E. per squire meter; multiplying this figure by the rentable area  $(1,000 \text{ m}^2)$  of the restaurant and coffee shop yields a rental fee of 36,000 L.E. per year.

#### (v) Government Refunding

refunds related to the production Government educational and cultural programs are allotted to various expenses and corresponding indirect expenses (direct expenses and depreciation costs) to cover the production of educational cultural and other programs of a general At the same time, they cover the support margin nature. for the operation of the New TV Center. The price equivalency calculation method is as follows:

- 1. Employee salaries: 50% of total expenses (ratio between staff required to produce dramas and that for general programs)
- 2. Program production costs: production costs (Table 76)
- 3. Utility costs: 35% of total expenses (ratio between studio area required for production of dramas and that for general programming)
- 4. Indirect expenses: 32% of total expenses (except, 35% during first phase of project)
- 5. Depreciation costs: same rate as in 4 above.
- 6. Profit: 10%

#### 7-1-5 Preconditions of Analysis

In addition to the various input data described above, several other preconditions are necessary when carrying out the financial analysis of this project. The principal ones among them are as follows:

### (1) Capital Procurement

The combined investment sum for the first and second phases of the project calls for 68 million LE in local currency and US\$130 million in foreign currency (both at 1985 prices). It has been assumed that the foreigncurrency portion would be provided through soft loans institutions to the Egyptian from overseas lending Government. The local-currency portion will be assigned investment by . Egyptian Government. capital incurred during the first year Operating costs will be supplied through Egyptian operation also The financial conditions the for local-Government. portion have been submitted by ERTU. currency Accordingly, of the initial investment costs, 71% is to be provided through soft loans and 29% through public investment by the Egyptian Government.

(2) Depreciation Cost

Depreciation costs are funds held in reserve as a mean of securing the capital required to replace the property in question.

Land is not included in such depreciation, however.

The depreciation period for the constructed property is 40 years for architecture and 10 years for broadcasting facilities and equipment. The straight-line depreciation method has been used for architecture, while the declining balance method has been used for broadcasting facilities and equipment. The residual value in both case is 10%.

(3) Inflation

The evaluation is conducted at 1985 constant prices with no inflation.

### 7-1-6 Results of Evaluation

(1) Analysis of Financial Statements a. Evaluation Indicators

evaluation financial of the analysis ultimate The consists of judging the project from two aspects: profitability and fund management. While profitability is often seen to be most important to a project's operation, in the case of the present project, which is extremely public in nature, greater emphasis is placed on funding than on profit potential. Accordingly, for the this analysis, a judgement will be purposes of concerning the ability of the project executing body (i.e., the management of the New TV Center) to build a reserve against depreciation and mobilize capital required for repairs and renovations using a sufficient

portion of profits, while still paying various operating expenses and long-term loan repayments.

In addition, indicators of high importance in the financial analysis evaluation include the length of the accumulated deficit depletion term, the maximum fund requirement, etc.

## b. Results of Evaluation

An estimated profit/loss calculation was performed based on the conditions that the foreign-currency portion of the initial investment requirement would be supplied through long-term soft loans (4% interest rate), and the local-currency portion through funds from the Egyptian Government. The results are shown in the profit and loss statement given in Annex 7-1. The secular changes in the operating balance are shown in Fig. 7-4.

The annual balance of current account shows that profits outpace deficits starting in the fourth year of the project's operation. Even so, however, the accumulated balance continues to show a deficit through 1997, and it isn't until 1998 that the overall balance moves into the black. The maximum accumulated deficit is 25.7 million L.E. tallied in 1993.

The interest payment in construction period and the dificit in three years from the operation are to be covered by the subsidy from the Egyptian government, therefore, no dificit is actually carried over to be accumulated for the project. On the other hand, these are a expenditure for subsidy for the government.

As shown in Annex 7-1, the operating ratio, which describes the current account, exceeds 100% during the first three years of operation; in the fourth

year, though, it falls below 100% and continues falling through the tenth year; in the eleventh year it rises again temporarily due to the addition of depreciation and this facility renovations: costs cover : momentary rise is seen again during the fifteenth, twenty-first and twenty-fifth years to cover the same type of depreciation costs.

project several just noted, the includes facility renovations which are accompanied by corresponding rises in the operating Nevertheless, the balance improves gradually after the fourth year and transit at 50 to 60% after 1999, thus marking the beginning of "sound" operation.

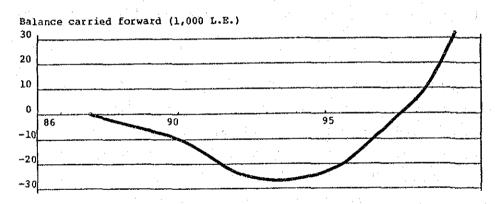


FIG. 7-4 TREND OF BALANCE CARRIED FORWARD OF NEW TV CENTER

The source and application table is shown in Annex 7-2. Loan repayment reaches a peak in the ninth year of operation (1999), when the grace period for the long-term loan of 1994 ends and full-scale repayment of the principal begins. Due to sufficient operating earnings, however, repayment will be possible without the necessity of introducing government subsidies or short-term loans. An indicator of the project body's sound ability to make such loan repayments is the annual debt service ratio. Table 7-13 indicates the annual debt services ratio from the first year of the project's operation

the year in which the repayment of the principal of the long-term loan is to be nearly completed. The repayment cannot be covered only by the project profit during the I construction and the first Phase four years operation when the repayment of loan starts despite only the profit of Phase I is available. As seen, with the exception of the construction period on the whole the ratio shows a more-than-adequate value -- thus indicating the soundness of the project body's ability to effect loan repayments.

This situation is aided by the fact that the local-currency portion of the construction costs which is provided through government investment does not demand repayment, which means that the repayment obligation of the project body is reduced by this amount.

From the above discussion, it may be said that the project is adequately capable of satisfying the fund procurement structure which was assumed in Section 7-1-5(1) above.

Table 7-13 DEBT SERVICE RATION

	Year	· · · · · · · · · · · · · · · · · · ·	Debt	Service	Ratio
	1987				· .
	1988			•	÷
	1989			_	
	1990		* .	~	
	1991	•		0.8	
	1992			0.8	
	1993			0.7	
	1994			.0.7	_f
	1995			1.3	
	1996			1.5	
	1997			1.6	
	1998			1.7	
	1999			1.9	
	2000			2.0	
	2001			2.5	-
	2002			2.5	
	2003			2.6	
	2004			2.6	
	2005			2.8	
	2006			2.9	
	2007			3.0	
	2008			3.1	
	2009			3.2	
	2010			3.3	
•	2011			3.7	
1 .	2012			3.8	
	2013			5.2	
	2014			7.1	
	2015			11.8	

## (2) Financial Cost Benefit Analysis

## a. Evaluation Indicator

A financial cost benefit analysis serves to evaluate a project in terms of its inherent profitability. The index of evaluation is the internal rate of return. As this naming indicates, the project's capital cost, i.e. its loan interest rate, is one yardstick of evaluation; in other words, it is desirable that the internal rate of return exceed the interest rate on related loans.

#### b. Results of Evaluation

The calculation sheet of the internal rate of return for the New TV Center is shown in Annex 7-3. The period of years, consisting calculation is 29 of the detailed (including period construction period, etc.) and 25 years in operation. It is assumed that investments will be applied during this period to replace facilities with short lifespans. It is therefore necessary to keep in mind that the residual value of these facilities for the final year of the project falls in the minus zone. The items used in discussing cost and benefit here are:

cost = construction costs, operating costs
benefit = operating income

The evaluation of the project's inherent profitability has been carried out independent of such factors as the ratio of loans in overall investments or the repayment of interest and principal. In this way, the evaluation refers exclusively to the project's own profitability.

The results of the analysis yield an internal rate of return of 7.72% under the conditions described above. Given the 4% rate of interest on the project's loans, it may therefore be said that the project is indeed feasible.

On the other hand, the local currency portion of the initial investment is covered by the public investment from the Egyptian government. Therefore, if this portion is not counted as an investment, the internal rate of return becomes 11.09%. Namely the executing body can stand a loan interest rate of up to about 11%.

## (3) Sensitivity Analysis

In the base case, supply plans are formulated to meet new price while the selling which arises As already described, for example, the number constant. of hours of programming to be sold overseas has been set under the assumptions of future growth in broadcast time in the 17 Arab nations and expansion in the marketing Center accomplished New TV. the share Based on these facts, efforts. independent sensitivity analysis to be performed here divides broadly The first refers to overseas sales: into two categories. i.e., it refers to the case where the New TV Center's overseas sales decline, whether due to a drop in growth in broadcasting time in overseas markets and a consequent reduction in demand for programs, or due to a marketing share despite program demand. The second case refers to the situation where an increase in operating costs takes place.

## a. Effects of changes in demand

If, for example, the overseas sales demand were to drop by 20% from the base case just described, the internal rate of return would be 5.18%; the project would still remain feasible, however, given the conditions of a 4% interest rate on the project loans. The project would run a deficit on a year-by-year basis during the first five years of its operation, and then move into the black after the fifth year; on an accumulated basis, however, the project would enter the black in its eleventh year in operation, i.e. three years later than in the base case. The debt service ratio would be low during Phase I operation, and during four or five years after operation, it indicates relatively low rate with little allowance.

For example, if there were to be a 30% downturn in demand, the IRR would fall to 3.70%, and this would mean that the project were no longer a sound investment for the financing side under the conditions of an interest rate of 4%. Furthermore, the project would not enter the black on a cumulative basis until its thirteenth year of operation, which would require a lengthening of the government subsidy period necessary to compensate for the project's deficits.

## b. Effects of changes in operating cost

In contrast, if all other conditions remain unchanged and only operating costs were to increase by 20%, then the internal rate of return would be 6.39%. While the project would remain in the red during its first five years of operation as in the case outlined above, the project would enter the black on an accumulated basis during its tenth year of operation, i.e. one year earlier than in case a. The debt service ratio undergoes with relatively low as in case a.

Based on case a and b just described, the internal rate of return is quite sensitive to demand, exhibiting a sensitivity rate of approximately 1.6% (i.e., a 10% decline in demand results in a 16% drop in the IRR).

(4) Financial Analysis of the First Phase The financial analysis method used here is fundamentally the same as that which is used in financially evaluating the overall project. The analysis model and indexes of evaluation also identical in both cases. are will clarify the points Accordingly, here we difference with the overall project analysis and also indicate additional conditions for the present analysis.

o Hours of marketing overseas after 1995 is estimated applying the increasing tendency appeared during 1991-1994. Even so, however, the copy center will reach its peak of production capability in 2001, and no further increase is predicted thereafter.

o On the subject of domestic cassette sales, the copy center will reach its production capacity limit in 1994, and the number of units sold thereafter will remain uniform.

The estimated profit/loss statement, estimated source and application table and cash flow, all based on the above conditions are shown in Annexes 7-4 through 7-6.

The results yield an IRR of 8.93% for the first phase of the project, representing an increase by 1.29%. The operating ratio and debt service ratio are also higher than the corresponding values for the overall project.

Therefore, it is understood that from the financial standpoint the first phase of the project is indeed feasible.

## 7-2 Social Appraisal

## 7-2-1 Educational Impact

(1) Current Status of Education in Egypt and Topics of Concern

Following the change in government which took place in 1952, Egypt's leadership has promoted the following measures in order to carry out its lofty goal based on the declaration that "education, like air and water, is the right of all Egyptians":

- free education at all levels
- compulsory education at the elementary level
- expansion in school facilities and unification of educational curriculum under the guidance of the Ministry of Education
- increased number of teachers and improvement in their level of qualification
- increased number of universities and the establishment of a Ministry of Higher Education.

As a result of this official policy, remarkable growth has been achieved in the rate of school attendance, the adult literacy rate and in the number of schools. The illiteracy rate, for example, declined from 70.5% in 1960 to 56.5% in 1976 (see Table 7-14). The ratio of persons completing higher education simultaneously grew from a mere 0.8% in 1960 to 2.2% in 1976.

In spite of these strong advances, the illiteracy rate remains high and the ratio of persons completing higher education is quite low in terms of overall polulation, thus indicating the need for Egypt to continue efforts to spread education. Among the topics greatest concern are the increase in educational facilities and teacher training to cope with increased population, greater dissemination of technical education which is necessary for improving national productivity and achieving economic development, and promoting the education of the as a means of attaining masses modernization.

Table 7-14 POPULATION BREAKDOWN BY SEX AND EDUCATIONAL BACKGROUND (Persons age 10 and over)

Education	1:	960 census		1976	census	
	Male	Female	Total	Male	Female	Total
Illiteracey	56.9	84.0	70.5	43.2	71.0	56.5
Reading/writing	32.6	12.4	22.5	33.2	16.2	25.1
Middle education	9.0	3.4	6.2	20.4	11.6	16.2
Higher education	1.5	0.2	0.8	3.2	1.2	2.2

Source: Tentative results of CAPMAS 1960 and 1976 censuses

## (2) Current State of Educational Broadcasting

In developing countries with high rates of illiteracy, in recent years audio-visual education has been recognized as an effect means of lowering the illiteracy rate and the use of educational TV broadcasting has become increasingly prevalent. Egypt is by no means an exception, and TV broadcasting is playing an important role in the education of the Egyptian people.

Table 7-15 the broadcasting time per shows day In 1983/84 the educational TV programming on ERTU. average was 1:20 hr/day, or about 500 hours per year. Nearly all such educational programming is produced by the station itself, and in content it is aimed students of elementary, middle and high school levels. There is also a substantial amount of programming on vocational training and university courses And yet, owing to the nearly complete absence programs). of TV receivers in schools, the use of educational broadcasting has been limited in almost all cases to the home rather than in-school.

Table 7-15 DAILY EDUCATIONAL TELEVISION SERVICES

Year	Educational Se	rvices	<pre>% of Total Services</pre>
1978	- hour 44	min.	. 4
1979	- hour 44	min.	4
1980	- hour 19	min.	1.6
1981	- hour 54	min.	3.7
1981/82	1 hour 02	min.	4.2
1982/83	1 hour 17	min.	5.2
1983/84	1 hour 22	min.	5.4

## (3) Contribution of New TV Center

The project newly includes numerous in-school educational programs for first- and second-year middle school and high school students. It is hoped that these new audiovisual materials will have great benefits in terms of school education and learning. It is also believed that audio-visual materials can be extremely effective if. vocational training vocational training, and programming is introduced into the classroom, it can bring major benefits to general members of the population who require vocational training at schools.

In addition to such in-school educational programs and this project also vocational training programming, for teachers, foreign includes educational programs language education programming, Arabic language teaching programs and programs for children. Programs designed for teachers, in particular, are designed to meet the need to train new teachers and raise their level of qualification, and this has great significance in terms of improving the teaching capabilities of those who serve as the core of education. Arabic language programs and vocational training progrms meanwhile are not only effective in lowering the illiteracy rate but are also beneficial for rectifying the extreme tendency of the young to become white-collar workers. The programs for children not only provide education to children in their pre-school years, but also may bring added benefit to family life in general.

## 7-2-2 Cultural Significance

Mirroring the importance placed on culture in the daily lives of its citizens, the Egyptian Government established its Ministry of Culture. Today cultural centers containing theaters, cinema halls, libraries and exhibition halls have sprung up in towns and villages all around the country, and they are widely used by the people. On the other hand, Egypt is quite obviously the birthplace of ancient civilization, and it is vital to preserve and carry on its many historical and cultural legacies.

The role of television broadcasting is also great in terms of promoting these cultural activities of the people and carrying on their traditions and culture. Table 7-16 shows the broadcasting times of ERTU's cultural programs since 1978. In 1983/84, the daily average was about 4 hours and 40 minutes, or 1,715 hours per year. In addition to programs on literature, and art, they also included a wide range of areas such as internationally acclaimed dramas, economics and science.

Table 7-16 DAILY BROADCAST TIME OF CULTURAL PROGRAMS

Year	Cultural Services	% of Total Services
1978	2 hours 13 min.	12.2
1979	2 hours 14 min.	12.4
1980	2 hours 40 min.	13.2
1981	4 hours 03 min.	16.9
1981/82	4 hours 32 min.	18.4
1982/83	4 hours 23 min.	17.8
1983/84	4 hours 42 min.	18.5

Against this background, it is hoped that the New Center will make use of its highly modern facilities to produce cultural programs of high quality and high standards, in order to meet the cultural needs of the Television is penetrating deep people and the nation. into the daily lives of Egyptian citizens as one of today's most powerful media, and the TV dramas, cultural programs, variety shows, etc. which will be made at the New TV Center through new technologies will contribute to the broad development of the nation's culture and the level οf cultivation. elevation people's of the Furthermore, intercultural exchange will be made possible via TV between urban and rural areas, as well as serve to overseas, culture Egyptian potentially lead to an increase in tourism.

# 7-2-3 Impact on Society and Lifestyle

The educational programs and educational dramas produced at the New TV Center, as well as short programs which provide specific information which may serve various problems in resolving life, daily in sanitation, etc.) occurring have the following said to be advertisements may

potential impact on society and lifestyle: improvement in nutrition and sanitation, increased numbers of women in the labor force, increased consumer groups with high levels of awareness, improved consumer life, etc.

## 7-2-4 Impact on the Economy and Industry

It is belied that the implementation of this project will also have the following impacts on the Egyptian economy and its industry.

- Overseas sales of programs not only will support the operating base of the New TV Center, but will also be of great significance it acquiring sorely needed foreign currency.
- With the implementation of this project, the rate of ERTU will independent program production at In terms of program supply, a shift will dramatically. imported programming to independent place from program production, which will contribute sharply reducing Egypt's drain of foreign currency.
- Of the total investment sum required for this project, 68 million L.E., or approximately 30%, consists of the portion. believed that local-currency Ιt ìs investment of such major size will bring direct economic benefit to the local citizens and industries in October City during the construction period. A tentative calculation of the effects of the project in term of job creation, for example, shows that 6 man-days of unskilled labor will be required for every square meter. tanslates into approximately 700,000 man-days of newly created employment.

## 7-3 Conclusion and Recommendation

financial analysis of the New TV Center Project The assumes the following preconditions: (i) the Egyptian Government will cover the local-currency portion (approx. through the initial investment costs of (ii) low-interest long-term loans will investment: applied for the foreign-currency portion; (iii) the costs of educational and cultural programms will be received in form of income from the Government as reasonable Meanwhile, it can be expected that the New refundings. TV Center will take in considerably enlarged income in the future in view of favorable overseas program marketing performance in recent years.

Given these various factors, the results of the fnancial analysis may be summed up as follows. Although an accumulated deficit will continue during the first seven years of the Center's operation, operation can be expected to move into the black as of the eighth year (1998), with a fair amount of profits to be reaped thereafter. Also, in general there would appear to be adequate capability to repay the necessary loans under the funding structure outlined above.

The project's internal rate of return calculates to 7.72% while the interest rate on its loans are assumed to be 4%, this means that the project is feasible under the given terms. Furthermore, in addition to the financial income to be gleaned through the project executing body, the New TV Center would also conceivably have a variety of important socio-economic effects -- such as the spread of education, cultural enhancement, improvement of social services and stimulation of related economic activities.

As a result of the foregoing financial analysis and the social evaluation, it is our recommendation that the project be implemented without delay.

A N N E X

ANNEX 7-1

PROFIT AND LOSS STATEMENT

TABLE

L.E.)	2015		40814	2	3	36	2	54199	స	2	•	360	Ö	2303	205	3016	222	1324	870	18270	8450	3001	11451	508	24269	400484	35.2
(UNIT:1000 L	2014		=	4	3	38	$\sim$	52774	un's	4402	•	360	•			3016		C-1	=	18270	4643		7444	321	26739	376215	49.3
5	2013	P	=	77	8	36	32	53183	2	4402	7984	360	0			3016	~1	-	œ	18270	5594		8595	200	123	349476	51.5
	2012		40814	-	8	36	ខ	53699	15254	9	•	~~	0	2303	2	3016					7046	3001	10047	744	ivo	323658	54.1
	2011		<b>6</b> 0	2048	•	98	- 00	54350	15279	-3	7984	360	33	2303	205	3017	222	1924	871	dn.		8	11876	1075	1 62	299019	57.5

NNEX 7-2	

SOURCE AND APPLICATION

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	4507			:			•						
	28530	14901	17898	19737	21789	24131	26660	31720	31408	31211	31123	32825	32518
	21142					-	36434				26542		
	3975	5639	5718	6804	7619	8451	8451	8451	8451	8451	34993	8451	8451 8451
	3413	8926	12180	12933	14170	15681	-18225	23269	22958	22760	-3869	24375	24068
	4849	14112	26292	39225	53396	92069	50852	74121	97076	119839	115970	140344	164412
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2007	2008	2009	2010	2011	2012	2013	2014	2015
32391	32339	32367	32459	34978	34685	34413	34183	35720
32391	32339	32367	32459	34978	34685	34413	34183	35720
151	8451	8451	59329	19451	8280	6106	32935	2817
8451	8451	8421	67780	8451	8280	9019	37411	2812
23940	23888	23916	-35321	26528	26405	28307	-3228	32908
188352	212241	236157	200836	227364	253769	282076	278848	311756
3.0	3.1	3.2	3.3	9.7	3.8	5.2	7.1	11.8

ANNEX 7-3	BASE CASE

CASH FLOW STATEMENT

TABLE

DESCRIPTION 1987	I. REVENUE  1) Marketing Program Oweseas  2) Marketing Program Domestic  3) Soot Advertising  4) Rentals of Restaurant etc.  5) Sovernment Refunding  107 AL	2.INVESTMENT 1)Building Construction 2)Broadcasting Facilities and Installation 3)Engineering Services 4)Contingency 5)Facility Renewal 107AL 3475	3.0PERATING EXPENSE 1)Direct CostDirect Personnel Wage -Programming Cost -Utility Cost -Sound Tabe Cost -YIR Tabe Cost -Warketing Commission 2)Indirect Cost -Management Personnel Wage -Maintenance and Repair -Maintenance Cost -Maintenance Cost -Miscellaneous Cost	######################################
1986		41351 18070 1379 3968 64768		***************************************
6861		31014 13554 1024 2977 48579		
1990		31014 13918 1683 3039 49654		
1661	8577 518 1120 36 8308 18558	1531 77 1608	8199 2673 4634 282 282 282 533 573 10256 10255	
1992	10771 594 1120 36 7558 20079	12002 13156 607 1541 27306	6285 2673 4634 282 637 637 222 1346 1946 10346	
1993	13294 660 1120 36 6964 22093	9003 9668 456 1155	8414 2613 2613 2634 262 2067 222 1346 499 10482	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1994	16094 779 1120 36 5493 24522	9003 10154 779 1206 21142	8559 4634 282 892 78 2074 1346 506 10634	*****
5661	25225 891 1600 36 10430 38182	,	14050 4402 4402 7984 360 1215 89 222 222 1924 810	
9661	28857 1022 1600 36 9660 41176		14265 4402 7884 360 25 1392 102 2267 222 1924 821 17231	
1997	31027 1175 1600 36 9049 42887		14402 4402 7884 360 1539 117 2973 222 1924 827 17375	
1998	33272 1350 1600 36 8564 44822		14581 4402 7984 360 1700 135 222 222 1924 836 17563	0.000
1999	35668 1553 1500 36 8180		14782 4402 7984 360 1881 155 222 1924 1924 846	
2006	38165 1782 1600 36 7877	00 00 04 00 00 00 00 00 00 00 00 00 00 0	15003 4402 7984 360 2079 178 222 1924 857 18007	
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2002	40814 2048 1600 36 9298 53796		15254 4402 7984 360 203 205 205 1924 1924 870	7634
2003	40814 2048 1600 36 8762 53260		15254 6402 7984 360 360 2303 205 3016 222 1924 870 18270	00000
2004	40814 2048 1600 36 8337 52835	26542 26542	15254 4402 7984 360 2303 205 3016 222 1924 870	
2005	60814 2048 1500 36 9700 54199		15254 4402 7584 360 2303 205 3016 222 1922 670 670	20000
2005	40814 2049 1600 36 9082 53580		15279 4402 4402 360 25 2303 205 3017 1924 871 19296	95367

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3088	52698	52388	52142	54350	53699	53183	52774	54199
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			59329				37935	-8718
			59329				32935	-82184
-47 -47	15254	15254	15254	15279	15254	15254	15254	1525
25	4402	4402	4402	4402	4402	4402	4402	440
78	1984	7984	7984	7984	1984	7984	7984	798
360	360	360	360	360	360	360	360	360
Š	2303	2203	2203	22	2383	2363	2303	230
, 15 15 15 15 15 15 15 15 15 15 15 15 15 1	205	205	205	205	205	205	205	202
9	3016	3016	3016	3017	3016	3016	3016	301
22	222	222	222	222	222	222	-222	22
1924	1924	1924	1924	1924	1924	1924	1924	1924
2	870	870	870	871	.870	970	870	87
2	18270	18270	18270	18296	18270	19270	18270	1827
			***************************************	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
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ANNEX 7-4

BASE CASE PHASE 1 ONLY

PROFIT AND LOSS STATEMENT

TABLE

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ANNEX 7-5

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2. INVESTMENT	-											-					
1)Building Construction		41351	31014	31014													
2)Broadcasting Facilities																	
and Installation		18070	13554	13918													
3)Engineering Services	3207	1379	1034	1683													
4)Contingency	268	3968	2977	3039										;			
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101AL	3475	64768	6/584	4395¢						•				36434			
G 3. OPERATING EXPENSE					-						÷						
1)Direct Cost	-				8188	8285	8414	8559	8646	8753	8732	3846	8905	8965	9043	9029	
-Direct Personnel Mage					2673	2673	2673	2673	2673	2673	2673	2673	2673	2673	2573	2573	
-Programming Cost					1634	4634	4634	4634	4634	1634	4634	4634	4634	4634	1634	4634	
-Utility Cost					282	282	282	282	282	282	282	282	282	282	282	282	
-Sound Tape Cost					7.	:				17					7		
-VIR Tape Cost					533	637	757	892	979	1072	1125	1179	1238	1298	1362	1362	
-Marketing Commission					23	23	88	78	78	78	78	5C	82/	78	80 F^	78	
2)Indirect Cost					2056	2061	2067	2074	2079	2084	2086	2089	2092	2095	2099	2038	
-Management Personnel Wage					222	222	222	222	222	222	222	222	222	222	222	222	
-Maintenance and Repair					1346	1346	1346	1346	1346	1346	1346	1346	1346	1346	346	1346	
-Miscellaneous Cost					488	493	667	206	213	516	518	521	524	527	531	530	
TOTAL					10244	10346	10482	10634	10725	10837	10878	10935	10997	11060	11141	11127	
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# PART 8

RECOMMENDATION ON

ADMINISTRATION, ORGANIZATION

AND DAILY OPERATION OF

THE NEW TV CENTER

# 8. RECOMMENDATION ON ADMINISTRATION, ORGANIZATION AND DAILY OPERATION OF THE NEW TV CENTER

## 8-1 Management

#### 8-1-1 Managirial body

From the view point of the broadcasting policy of the Egyptian Government, it is recommended that the New TV Center should be managed on the basis of the governmental enterprise and its position should be one part of the existing ERTU's organization.

#### 8-1-2 Management

The New TV Center will be quite different from the other existing sectors in ERTU's Cairo Headquarter in terms of self dependent managirial body.

The main point is the self-supporting system of its managirial operation. In order to stabilize the operational management of the New TV Center, the initial investment of the government, expansion of the program marketing, stable supply of the marketed programs to the market and the efficient operation of the Center will be indispensable.

## 8-2 Organization and Personnel Plan

The New TV Center, in which yearly 2,100 hours of various programs will be produced, shall have a functional organization, and the personnel plan must be well considered in order to carry out the smooth and efficient operation.

8-2-1 Organization of the New TV Center Refer to Table 8-1.

#### (1) Program Marketing Office

Program markting is one of the most important function of the New TV Center in order to secure the annual revenue, and it will contribute to the self-dependence of the New TV Center.

This office must endeavour to expand its market in domestic use and especially in foreign countries not only Arabic countries but also non-Arabic countries.

## (2) Production Coordinate Dep.

This Dep. is important to well organize and coordinate each program production requirement such as allocation of studio, EFP equipment and post production equipment, together with planning of program production schedule throughout the year and out-line of each production's process to aim at the most effective operation in terms of optimum usage of the produciton staff and the equipment.

#### (3) Production Support (Tech.) Dep.

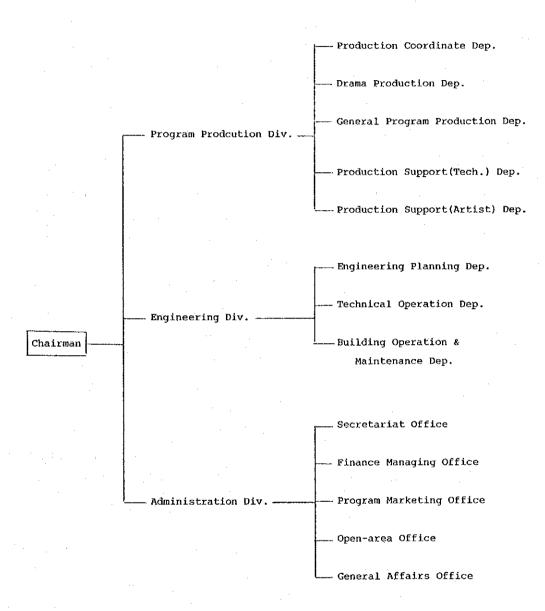
The technical staffs concerned directly in program production belong to this Department.

The staffs take charge of daily operation of the program production and also light maintenance work.

Under this Dep., several classified Sections are put in position, such as Camera-man section, Light-man section, Audio mixer section and so on.

The head of each section should have responsibility of effective and efficient management of the personnel.

Table 8-1



To fix the staffs to specific studio or specific program will cause loss of manpower.

These technical staff sections are desirable to be organized within the same Dep. in order to make a smooth team work with each other in the program producing operation.

(4) Engineering Planning Dep.

This Dep. is in charge of Construction of building and studio facilities together with renovation planning, maintenance planning and trouble countermeasures of all those equipments. Moreover, collecting requests and opinions from Program Production Div., and organizing them, this Dep. is to be the engineering window office for outside organizations.

(5) Technical Operation Dep. and Building O & M Dep.

Technical Operation Dep. (T.O.C) is to operate and maintain the centralized equipments for program production and copy VTR's for program marketing in T.O.C. and in addition to operate special studio such as utility studios, and to be in charge of maintenance jobs of whole those related production facilities.

Building Operation and Maintenance Dep. is in charge of air-condition facilities, electric power supply and telephone in terms of the New TV Center building equipments.

8-2-2 Transferring of Daily Operational Rights and Assignment of the Subordinates.

In order to make the daily operational procedures efficient, according to the hierarchic organizational levels such as Div. Dep. and Sec., the head of theeach

level has to be given appropriate rights to make the daily opration decision making and at the same time by assigning his subordinates during his absence. There must not be the case that the daily operational process is hazarded and or delayed by lack of the decision during the head's absence.

In other words, not to centralize the decision makings to one or two top managers, allocating the rights to the middle levels concerned must be considered in order to rationalize the daily activities, especially the cost control jobs in the New TV Center.

And, of course, those responsibilities and rights shall be clearly notified to the related staff.

This is most essential to proceed the program production effectively and smoothly with regard to the necessary daily cost control. Because there are naturally many modifications and fluid decision making necessary in the program production.

In case that it is necessary to get the addmissions of the top manager even for miner things, the daily operation will be delayed and hazarded very much, so that studio production of facilities and the man-power will be wasted a lot. Therefore transfering the rights to the suitable subordinates is very important to carry out the daily operation smoothly and effectively.

## 8-2-3 Personnel Recruitment and Training

For TV program production, well experienced skills are necessary to the production staff.

In order to meet the construction phases of the New TV Center, the required staff recruitment and the

preparatory training should be carried out deliverately on respective the purposes of Phase 1 and Phase 2 operations.

To achieve the smooth recruitment, the following 3 methods are to be considered in a well balanced form.

- (1) To shift well skilled staff of the existing ERTU Cairo TV Center, and to assign them as the core staff of each production Sec. of the New TV Center.
- (2) To recruite already skilled persons from outside TV production organizations in Egypt as well as foreign countries.

There are many Egyptian broadcasters actively working in the Middle East countries, and some of them would be willing to join the New TV Center's operation. But the salary basis at the New TV Center must be attractive to those people.

(3) To start general training course for newly recruited freshman staff as early as possible.

## 8-3 Effective Program Production and the Daily Operation

8-3-1 Simplified payment procedures as regard to Program Production.

Here, regarding 2 kinds of payment which are one for performers in the production and the other for rent or purchase of goods for the production comodities, those orders are arisen from each program producer and through each section's Chief or the acting chief, Budgetary Affairs Sec of Program Coordinate Dep., and Finance Managing Office of Administration Div. go to the payment window office, thus to make one line flow

of the order to the payment can contribute to the smooth and effective operation of the Center.

In other words, it is utilizing the merit of slip system to the maximum extent. And at the same time, by combining the "Transferring the right to the subordinates" stated in 8-2-2, daily operation will be much more easier.

Thus, one payment window office can process two kinds of payment mentioned above. Moreover, if bank accounting system is utilized, the clerical works would be more economized.

## 8-3-2 Rationalization of Production Process

To realize smooth and effective program production the following 3 points are very important.

- 1. Well prepared production cinario
- 2. Complete notice of art designer's intention
- Fully understanding between program producer and the production supporting staff.

These are essential not only to obtain a high quality level of the program but also to reduce the occupying hours of studio and the production equipment.

## a. Production Cinario

Production cinario is essential not only for describing the program story and each performer's talks, but also for complete notice of the producer's intention to the production staff. Usually, number of recording cut of 30 minutes drama is reached to 100-200, and for the each cut, assignment of the studio camera such as A, B or C camera, camera operating works such as panning, tilt and zooming, supposed picture to be taken by the camera, actions of the performer and his looks, position of the performers and the relation among the performers and the scenary set, talks and narration with the background music, effect sounds and special effect montage etc. are to be described on the cinario.

Cinario has to be made as early as possible so as to distribute not only to the producer program director and the assistants but also to artistic designer, technical staff and the performers, thus those staff can recognize his role in the production and prepare himself by reading the producer's intention beforehand. This is useful to reduce the studio recording time and to realize the smooth production at studio.

Of course, it is the same thing for general program production.

## b. Complete Notice of Art Designer's Intention

After reading cinario, the designer makes consulting with the producer about the practical scenary settings and gives his directions to the staff of work-shop and accessaries.

Here, the below 2 designing blue prints are essential.

### (i) Studio Floor Sets Planning

In this blue print, relationship between the position of lighting equipment and the scenary set is drawn so that the program director can consider the performers and the camera's positioning and its shooting angle.

And the technical staff can make the microphone arrangement and lighting planning.

# (ii) Scenary setting Planning

This blue print defines the each part made in the work shop with the measures connecting method of each part, the colour to be paint and the material etc.

On the basis of these two blue prints, works in the work-shop and scenary setting works in the studio can be smoothly carried out, and the post amendment, if there, can be reduced to minimum.

c. Fully understanding between producer and the technical staff

At least 2-3 days before the studio recording day, a deliberative communication between the producer side and technical staff has to be conducted.

This meeting is proceeded by showing the cinario and the blue print above mentioned item (b)(i), and during the meeting the delicate intention of the producer can be throughly understood among all the production staff and at the same time, practically impossible point can be checked and the counter measures will be deviced in the earlier stage.

By doing as mentioned above, smooth and effective studio production can only be obtained.

Although, in the New TV Center, at least 30 minutes drama recording within a day is planned, unless those production procedures, it is not possible to achieve the 30 minutes recording.

- 8-3-3 Effective Operation of Technical Staff in Program Production.
- (1) Technical staff involved in a program production should know thoroughly all the necessary activities requested to the each crew by the time of recording, through deliberate pre-discussion among the crews including program producer and the technical staff, so as to proceed the next camera rehearsal smoothly.
- (2) By dint of recent electronic development, such as highly stabilized characteristics and plus the autoset-up control system of the camera and VTR, adjustments of those studio equipments are very easily done in short time.

The job which mainly spends the adjustment time is the light-setting (L.S.) operation in the studio work, so that it is the key-point to shorten the L.S. work for the smooth and effective studio production.

- L.S. work consists of three parts which are changes of each light position and the angle, control of the brightness and its colour. During the operation, the most time spending and elaborative work is to replace or add the lighting equipment, therefore pre-arranging the equipments a little more in number with the basically predetermined lighting patterns according to each studio's condition could be recommended, so that replacing each equipment in each time shall not be required.
- (3) Camera rehearsal (CR) is a chance to simulate a plan of production process and. the schedule which production crews previously discussed in the prior meeting as well as to seek the better operation. Threfore, still at this step, misunderstanding between the producer and the cameramen, and spending time to confirm while they are discussing should be avoided.

carry out those jobs, (4) In order to authorized (T.D.) Technical Director of positioning would Usually Vision Mixer is in charge of recommendable. the T.D. function who takes care of whole the technical activities as well as assuming responsibility for the technical problems during the production and also he replies to the technical consultation with the program producer.

Thus, T.D. could contribute to the efficient operation together with the better equality of the final program.

## 8-3-4 Adoption of Off-Line Editing Method

There are two different kinds of editing method, one is using the originally recorded VTR tapes while searching the cut-out and in points and then dubbing to the master tape, this method is now being done in ERTU Cairo TV Center. This system has a merit of one stage dubbing operation, however, editing operation always can not be done by the initial planning and requires many times of try and review procedures, in due course it is inevitable to damage the original tape and also to occupy the expensive editing equipment for a long hours.

The other off-line editing system is aiming at avoiding such demerits of on line method by using cheaper VTRs when producer decides the editing point, so that especially effective on drama program which has many number of cut points and useful for the effective production.

# 8-3-5 Videonization of Film Programs

Film technology has still some features like wide screen projection and high speed shooting in comparison

with TV technology.

But these features will be diminished in the near future by the rapid development on electric video technology.

Even at present, video production using VTR is considered to have many mexits than film production in terms of the clearness, color reproducing characteristics, quick play, low cost operation and so on, therefore, not only in Japan but also world widely it has become main production method of TV programs and more and more the tendency will be significant.

Taking these facts into consideration, it is necessary not to sow the seeds of trouble in the future.

# 8-3-6 Operation of C.C.U. (Camera Control Unit)

TV camera so far required the operator to adjust the deviation caused by switch-on and other unstable elements.

However, recently made cameras are automated by the self contained micro computer to make initial adjustments within several minutes and having very small deviation factor by dint of development of the circuity and the parts so that continuous manual adjustments are not necessary except iris control of the camera lens during the program production.

Consequently, rather than conventional concept to suppress the color deviation, new concept to create the color for instance light operator share the role of CCU operator and compensate the illumination excess or lack, would be preferable in an effective studio operation.

# 8-3-7 Operation personnel of EFP

At present in Cairo Broadcasting Center, even in case of the studio drama production, the EFP (outdoor portion of the drama) is operated by the staff of the outdoor section.

It is recommendable that the studio production staff should be in charge of the EFP portion of the studio program from the viewpoint of program consistency and efficient operation. In order to achieve this operation, production system (including personnel management system and organization) should be considered.

APPENDIX

SCOPE OF WORK

FOR

THE STUDY

ON

THE NEW TELEVISION CENTER AT 6TH OCTOBER CITY

FOR

PROMOTING EDUCATIONAL AND CULTURAL TV PROGRAM

IN

THE ARAB REPUBLIC OF EGYPT

AGREED UPON BETWEEN
EGYPTIAN RADIO AND TELEVISION UNION
AND
THE JAPAN INTERNATIONAL COOPERATION AGENCY

Cairo, 25 February, 1985

HUSSEIN MOHAMED ENAN

President,

Egyptian Radio and

Television Union

25/2/1935

ICHIRO SHOJI

Leader of the Preliminary

Study Team,

The Japan International

John Shop

Cooperation Agency

#### I. INTRODUCTION

In response to the request of the Government of the Arab Republic of Egypt (hereinafter referred to as "Egypt"), the Government of Japan has decided to implement the study on the New Television Center at the 6th October City (hereinafter referred to as "the Study") in accordance with Agreement on Technical Cooperation between the Government of Japan and the Government of Egypt signed on June 15th, 1983.

The Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programs of the Government of Japan, will undertake the Study in close cooperaction with Egyptian Radio and Television Union (hereinafter referred to as "ERTU") and the authorities concerned of the Government of Egypt.

The present document sets forth the Scope of Work with regard to the Study.

#### II. OBJECTIVES OF THE STUDY

The objective of the Study is to draw up a plan of a new TV program production center which shall promote educational and cultural programs and contribute to development of living standard throughout the country.

The plan consists of the following items;

- (1) To formulate a plan of a new TV program production center which shall be constructed in the 6th October City including basic design and preparation of an implementation schedule.
- (2) To recommend its effective operation and management system

## III. OUTLINE OF THE STUDY

- Study area
   The 6th October City
- 2. Contents of the Study
- A.Data collection, Analysis and Field survey

  The team shall carry out data collection, analysis and
  field survey on the following items;
  - (1) Socio-economy
  - (2) Present condition of TV broadcasting
  - (3) Present program production plan and system
  - (4) Present condition and program production system of educational and cultural TV program
  - (5) Financial condition of ERTU
  - (6) Existing TV program production facilities
  - (7) Topographic condition and infrastructure in the construction site
  - (8) Construction method and material
- B.Planning, Designing and Recommendation Based on the results of above studies, the following items shall be undertaken by the Team.
  - (1) Review of the existing conceptual TV Broadcasting plan
  - (2) Formulation of an educational and cultural program production plan
  - (3) Basic design of the new TV program production center
  - (4) Cost estimate of construction and operation
  - (5) Preparation of an implementation schedule
  - (6) Recommendation of an effective operation and management system of the new TV center
  - (7) Financial analysis and social appraisal of the project

# IV. SCHEDULE OF STUDY

The Study shall be undertaken in accordance with the attached tentative schedule.

#### V. REPORTS

JICA shall prepare and submit the following reports in English to the Government of Egypt.

- Inception report (20 copies) at the beginning of the work in Egypt
- 2. Progress report (20 copies) at the end of the work in Egypt
- 3. Interim report (20 copies) within two and a half (2.5) months after completion of the work in Egypt
- Draft final report (20 copies)
   within four and a half (4.5) months after completion
   of the work in Egypt
- 5. Final report (50 copies) within two (2) months after receiving the comments on the Draft Final Report

## VI. UNDERTAKING OF THE GOVERNMENT OF EGYPT

The Government of Egypt will accord privileges, immunities and other benefits to the Japanese study team (hereinafter referred to as "the Team") in accordance with the Agreement on Technical Cooperation between the Government of Japan and the Government of the Arab Republic of Egypt.

- 1. To facilitate smooth conduct of the Study, The Government of Egypt shall take necessary measures:
  - to inform the members of the Team of safety requirements in the course of the Study, and take precautions when it is required

- 2) to permit the members of the Team to enter, leave and sojourn in Egypt for the duration of their assignment therein, and exempt them from consular fees
- 3) to exempt the members of the Team from taxes, duties and any other charges on equipment, machinery and other materials brought into Egypt for the conduct of the Study as deemed necessary by ERTU
- 4) to exempt the members of the Team from income tax and other charges of any kind imposed on or in connection with any emolument or allowance paid to the members of the Team for their services in connection with the implementation of the Study
- 5) to provide necessary facilities to the Team for remittance as well as utilization of the funds introduced into Egypt from Japan in connection with the implementation of the Study
- 6) to secure permission for entry into any area deemed necessary for the conduct of the Study
- 7) to secure permission to take all permissible data and documents (including photographs) related to the Study out of Egypt to Japan by the Team
- 8) to provide medical services as needed, its expenses will be chargeable on the members of the Team
- 2. The Government of Egypt shall bear claims, if any arises, against the members of the Team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or wilful misconduct on the part of the members of the Team.
- ERTU shall act as counterpart agency to the Team and also coordinating body in relation with other organizations concerned for the smooth implementation of the Study.

- 4. ERTU shall, at its own expense, provide the Team with the following, in cooperation with other relevant organizations:
  - 1) . available data and information related to the Study
  - 2) . counterpart personnel
  - 3) . suitable office space with usual facilities in Cairo
  - 4) . appropriate number of vehicles with drivers
  - 5) . credentials or identification cards

#### VII. UNDERTAKING OF JICA

For the implementation of the Study, JICA shall take the following measures:

- 1) to dispatch, at its own expense, the Team to Egypt,
- 2) to bring, at its own expense, the equipment, machinery, and materials found necessary to carry out the Study and found not available in Egypt. These items will remain the Japanese Side property,
- 3) to pursue technology transfer to the Egyptian counterpart personnel in the course of the Study

## VIII. CONSULTATION

JICA and ERTU shall consult with each other in respect of any matter that may arise from or in connection with the Study.

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