

CITY OF ATLANTA'S EVALUATION
REPORT OF THE PROPOSED MODEL CITIES PROGRAM

CITY OF ATLANTA
OFFICE OF CITY COMPTROLLER
ATLANTA, GEORGIA

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FEBRUARY 1969

DATA PROCESSING OPERATIONS DIVISION

EVALUATION REPORT

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II. HISTORICAL BACKGROUND

The Model Cities Program employed Arthur Anderson & Company to design a Management Information and Control System which could keep track of the accounting functions of the various projects involved in this program. This information system would also be used to produce other management information reports showing how well the goals of each project are being achieved.

The consultants have divided their proposed system into three major groupings. They are as follows:

1. Responsibility Reporting
2. Project cost reporting
3. Benefit reporting and cost - benefit analysis

In November, 1968, Arthur Andersen & Company presented to Model Cities a general proposal titled "Atlanta Model Cities Program Management Information and Control System" in which is set forth the proposed automated system.

III. CITY'S PARTICIPATION IN THE PROPOSED PROGRAM

We have met with the consultants from Arthur Andersen & Company briefly on three occasions to find out what role the City will be expected to play in this application. It seems that this will be a package application with the consultants furnishing all systems, programming, and design concepts. They will be responsible for all clerical procedures, correction routines, and testing of the system until it is operational. At this point they will turn the programming and all documentation over to the City.

The consultants will require space for their personnel for a period of two months. The City is asked to furnish one Programmer for approximately two days. The purpose of the City furnishing a Programmer is to familiarize our staff with the programs which we must maintain after they become operational.

We have reached tentative agreements in the following areas:

- 1) The City will furnish one Programmer the required indoctrination period.
- 2) The necessary space will be allotted on the 13th Floor by utilizing the Conference Room.
3. The City will furnish the normal computer time necessary for completing the system during the regular two-shift operation. If the consultants desire more time, they will use the machine on the 3rd shift.

4) All City personnel who will be involved in the operation will be given a brief introduction to the procedures they will be expected to follow.

IV. ANALYSIS OF THE PROGRAM AND THE FORMULA USED TO ARRIVE AT COST

In the last meeting we held with the consulting firm we were given some of the detail proposals which they had completed. This included report formats, card layouts, master record layouts, transaction file descriptions, transaction code arrangement, and a system flow chart.

No concrete volumes could be given at this point but a not-greater-than figure was arrived at based on the information which is available.

The preliminary findings indicate that the City will be committed in the following areas:

- 1) Data Control and Scheduling
- 2) Key Punching
- 3) Computer Processing and Reporting
- 4) Program Maintenance

The major types of cost were forecast based on the following assumptions. It must be noted that if any of the rules are changed or adjusted that it will make a difference in cost. This difference could be considerable in many cases.

- 1) The Master File will contain 2,000 records and each record will have 200 characters.
- 2) The Master File will have 1,500 transactions to be processed against it each month.

Model Cities - System Parameters:

Estimated monthly volume:

a. Voucher transaction	1400
b. File Maintenance	1000

Keypunch:

1400 x 60 (characters per card)	84000
100 x 40 (average character per card)	<u>4000</u>
	@ 88000 characters

Printout:

Report	Number of Copies	Average # of Lines	Total
01	8	20	160
02	1	20	20
03	200	15	3000
04	200	15	3000
05	12	30	360
06	12	30	360
07	1	40	40
08		2000	
09	1	1350	5350
10		2000	
11	1	40	40
12	1	50	50
13	1	100	100
14	2	40	80
15	10	40	400
16	1	30	30
17	1	1500	1500
18	1	10	<u>10</u>
			14,460 - @ 15,000

One Time Elements:

2000 M. F. records x 125 (Avg. char/required card) = 250,000 char.

2000 program x 3 prog. x 40 (Avg. char/req. card) = 250,000

V. THE TWO MAJOR TYPES OF COST AND FINAL CONCLUSIONS

Using the above stated formula we have further divided the cost into two major breakdowns: (1) one time conversion cost, and (2) continuing operating cost. One time or conversion cost will be as follows:

1. Programming	\$65.60
2. Key Punching	860.00
3. Computer	4,000.00
4. Invalid Data Rerun	<u>201.60</u>
Total	\$5,127.20

Monthly Operating Cost

1. Control Section	15.00
2. Key Punch Section	74.00
3. Computer Section	75.00
4. Misc. & Supplies	25.00
5. Program & Systems Maint.	<u>3.50</u>
Total	\$192.50

The Model Cities Program will fluctuate from a minimum of 70 to a maximum of 200 projects, therefore, no accurate or comprehensive cost figure can be established until we have gained some experience. It is suggested that this Information System be reviewed at least on a quarterly basis and revised cost figures be submitted as they occur. The operating cost should steadily increase as the project ages.