COMPUTERS IN AIR

H.O. Srivestove, Director, Computers, AIR, New Delhi

To keep up with the technology explosion in information and communication, the oldest service, AIR, had to go for technology upgradation to cope with the rest of the world. Computers came in for the management of bulletins, administration, and personnel management for AIR

To know how they work Dr. Ranjit Singh interviewed H.O. Srivastava,

Director, computers, AIR

What are the application areas for computers in your department?

The areas are divided into two parts . One is MIS, which includes personnel management. This is on a Unix muchine which we purchased from ESPL. The other package is on project management. This is a very sophisticated package using PERT/ CPM techniques, and it has been. Implemented at headquarters as well as at zonal offices in Delhi, Bombay. Calcutta and Madras. The third application: We have got 35,000 audio tapes which are stored at headquarters. If a programme is to be produced then sorting operation from these topes is required. This again is In the UNIX environment.

We have another machine. Norsk Data 550, which contains material management and inventory control. In addition, we have a royalty payment package. Royalty is paid to film producers depending on the number of times a particular song is telecast. Another package which we have developed is billing for commercials. Our revenue is Rs. 290 mm every year. Another application is computer-aided design (CAD).

Where do you propose to use this

CAD package?

O AIR is implementing a huge expansion plan costing Rs. 7 bn during 1985-1990 where 100 identical radio stations are being set up. The design of these studies as well as buildings is being done using our CAD package.

B Dose that mean that various acoustic parameters like revent beration time (RT) are also accounted for in your CADI of Yes, the RT for our studies is be-

ci Yee, the RT for our studies is between 0.2s to 0.5s. In addition : we have developed structural enalysis package which is useful for civil and



H.O. Srivaslava

tower designs.

How did you develop the operational software?

D Certain software has been developed by, suppliers and subsequent prodifications have been carried out in house.

What is the hardware configura-

O We have a Norsk Data \$50 super minicomputer alongwith a CAD system. 1.2 KB x 1.2 KB graphic system. AO digitizer. AO plotter magtapes and terminals. Another system is Unix based having 10 terminals and 7 PC's. Also there are 4 computers in zonal offices and these are all Unix based machines.

Would you like to throw some light on the historical development about induction of computers in

O A in the wake of the huge expansion plans of felevision in 1982, when one TV transmitter was installed per day, the biggest problem was redeployment of staff. At that time we felt the pred of computerising our operations to face the challenge of expansion. P.S. Dhagal, ex-

engineer-in-chief, and myself had initiated a proposal which was cleared by the government. Thereafter S.P. Bhatikar took over and initially we purchased a Ra. 1 mm computer in 1985 from ESPL.

What is the total cost of the system?

O The first computer cost Rs. 1 mm and the second one Rs. 13 mm. In addition, 4 computers at zonal offices cost Rs. 3.1 mm, including software. The recurring expenditure is Rs. 1.2 mm per year, of which Rs. 0.4 million is towards selectes and rest is towards maintenance.

 What are the salient features of the software?

First of all, software are menubased and simple. The software is not language specific, it uses a report generator for creating reports. Also, we have 4-G query languages. We also have special software called acreen handler.

What practical benefits have accorded to the department by using computers?

D Two types: One is the economy of operations. For instance, the task of booking of advertisements and the reconcilistion statement used to take upto two years. Now it takes just four weeks. This alone has resulted in saving of Rs. 0.25 mm per year.

The second type of benefit relates to satisfection. For example, payment to producers is fast, agencies get their commission faster, and staff get their salary slips alongwith the provident fund statement every month.

model before establishing these computer facilities?

O We had visited Japan and the United Kingdom and studied sutomation in NYCK and the BBC. My conclusion is Japan has done wonderful work in this area. But I would say that although Japan started automation in the 60's and we in 1985, yet as far as CAD is concerned, NHK did it in 86 and we implemented it in 1987.

■ You have computers at Delhi head-quarters and other locations, and at the moment you are depending upon mail for upgrading data. Have you explored networking of

various computers?

We have already networked our two computers, the All-India Radio computer at head quarters and the North Zone computer near India Gate. This has been done using modems and P&T lines. Currently our teams are going to calcutta, Bombay, Madras for implementing network-



ing of all the computers but the leased lines over long distances are very costly. Therefore I was trying to get satellite links already allocated to AIR for this purpose.

In today's world where at least in urban areas television enjoys much more popularity, what role do you

envisage for radio?

It is a global phenomenon that television and VCR due to their visual impact get more attention. However, radio has its own importance. For example, you can listen to radio while driving a car or doing house hold chores, like cooking, washing, etc. Similarly, radio is popular for maintenance workers, truck drivers, field workers, etc.