Massachusetts Institute of Technology
Information Processing Center
Cambridge, Massachusetts 02139

July 6, 1971

MEMORANDUM

To: Prof. F. J. Corbato, Project MAC, 545 Tech. Square, Rm. 513

From: Weston J. Burner

Re: ARPA Network Administration

I am not sure how the issues involved in your June 17 memorandum will be resolved, but there are a few points which I believe need to be brought to light from the IPC standpoint.

Network Daemon - Because we try very hard to price our computer services specifically towards the resources consumed within the cost pools established it would appear justified to charge the Network for its daemon activity. I believe this is true particularly in the early stages where the community to be served will be small. Perhaps a single charge to Project MAC for the daemon would be the simplest method until such time as a specific rate could be determined through usage statistics and daemon costs.

Line Charges - I agree that at least initially no differentiation on line charges should be made. It is hard to justify financially without experience but after some evaluation of usage, as with the daemon, perhaps some tailored cost calculated by including the cost of the wired down core, the IPA, etc.

Limit Stops - Effective August 1, 1971 the IPC will be providing over-run protection, at least on a day-to-day basis, on both Multics and CP/67. Although I'm sure you will consider the method somewhat primitive it will do a fairly decent job in protecting users accounts and termination dates. In principle, it provides for the running of a program each day which in turn will notify our user accounts office on all users whose dollar balances have been deleted or exceed and/or whose termination dates have passed. We will then change passwords and delete the files involved. At the same time we will be notifying users and account administrators so that whatever action is necessary will be taken.

Bulk 1/0 - Hopefully the amount of bulk 1/0 will not put us in the "poor house". The mechanics necessary for mailing and control are unclear however, and I suppose they can be worked out between our Operations people and User Accounts.

Number of Lines - As I've said many times, I really don't care where the revenue comes from, however, when we consider that there is currently not enough Multics to go around, I strongly suggest we limit the number of users to as small a number as "politically" feasible. I would say three lines for a start and let's see how it goes.

User Archive Tapes - With or without the ARPA Network this facility must be provided. If the Network gets this job done for us it will justify itself.

As I said before, I'm not certain how the various issues actually get resolved, but I assume another draft or plan will be issued. Please let me know if we need to discuss any points in particular.