COMPANY

575 TECHNOLOGY SQUARE, CAMBRIDGE, MASSACHUSETTS TELEPHONE 491-6300

CAMBRIDGE
INFORMATION
SYSTEMS
LABORATORY

DATE:

NOVEMBER 21. 1969

TO:

J. L. BASH

F. J. CORBATÓ

R. C. DALEY

R. A. FREIBURGHOUSE

J. W. GINTELL

J. H. SALTZER U

FROM:

C. T. CLINGEN

SUBJECT:

PROPOSED MULTICS TRAINING PROGRAM FOR RADC PERSONNEL

I would appreciate your comments on the attached draft letter before committing myself in writing.

/11 (enclosure)

C. T. CLINGEN

GENERAL ELECTRIC

DIAL COMM .

8-264-4201/2

DATE

NOVEMBER 21, 1969

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CW Dix RF Montee

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CISL/LSD

ADDRESS.

575 TECHNOLOGY SQ., CAMBRIDGE, MASS. 02139

SUBJECT.

PROPOSED MULTICS TRAINING PROGRAM FOR RADC PERSONNEL

TO:

H. A. NYE

DRAFT

FROM:

C. T. CLINGEN

At your request, I am documenting a proposed Multics training program which CISL would be willing to implement in Cambridge to bring Rome Air Development Center programmers up-to-speed on the Multics system. This proposal outlines an upper bound level of training; RADC may wish to back off somewhat in order to reduce the day-to-day commitment of their people implied by this plan.

The training is divided into three categories and it is assumed that trainees will be available 5 days a week/8 hours a day.

Office space, desks, supplies, consoles, etc. will all be supplied by CISL. Presumed length of training is on the order of 3 to 6 months.

The three categories of training may be described as follows:

1. Formal Classes for Instruction

Daily 2-hour classes on the topics of Multics fundamentals, PL/I programming and the use of Multics would be given during the first 2-3 week portion of the training period. The remainder of each day during this period would be devoted to reading, programming of assigned problems, and limited hands-on use of Multics to check out programming assignments.

2. System Maintenance

After the initial training period, trainees would be incorporated into the System Maintenance group where they would first learn and then perform, on a day-to-day basis, those functions required to generate and install new versions of Multics. This would serve a two-fold purpose, first, of familiarizing them with user interfaces to Multics and, second, of introducing them to the details of the inner workings of Multics. This period of training would last on the order of 6 - 8 weeks.

3. <u>Dump Reading and Minor Fixes</u>

The 3rd phase of the training program would involve expanding the scope of the trainees to that of reading system dumps, interfacing with system programmers responsible for apparent problem areas and, in certain cases, generating and installing fixes for bugs in the system. A useful level of competence could be derived from this activity, the duration of which would exceed 1 month, but which could be less than 3 months.

At the end of this training program, trainees would not only have a working knowledge of the use of Multics, the generation of new Multics systems, programming conventions, and to some extent the inner workings of the system, but they would also be on a first name basis with the members of the Multics project, both from MIT and GE. This level of knowledge should provide an adequate base upon which the operation of a Multics system at RADC could be founded.

I would appreciate a notice of one month in advance of the time at which you would wish to have such a training program begin so that the necessary preparations could take place.

C. T. CLINGEN, Manager Cambridge Information Systema Laborbidgy