TO: R. C. Daley   cc: C. T. Clingen
                                                                F. J. Corbató
FROM: J. W. Gintell   J. M. Grochow
DATE: 8/27/69   E. T. Reardon
SUBJECT: Retrieval by Operations   J. H. Saltzer

This is to document what must be done and who should do it in order to
move the burden of retrieval from the users of the system to the Operations
staff. This must be completed by October 1 so that the backup tapes
can be declared not readable by programmers and thus remove an important
security gap.

Primary Names: Mary Thompson

    The concept of primary names must be implemented so that a user can
    know which of the many potential pathnames is to be used to specify
    a segment to be retrieved.

Dump Map Format: R. H. Campbell, J. M. Grochow

    The dump map format must be made easier to read so that Operations
    can easily find the information needed in order to select a dump
    tape.

Retrieval Map Placement: R. H. Campbell

    The retrieval map should be placed in a reasonable place such as
    the requesting users directory or the operators working directory
    instead of being left in the process directory with a unique name.

Directory Retrieval: R. H. Campbell, J. M. Grochow

    The current retrieval control segment syntax is such that directory
    retrieval reloads a directory with two length branches. As a
    consequence of this, a miss-typed pathname of a segment can cause the
    deletion of all segments in a directory. A new syntax for directory
    retrieval should be developed.

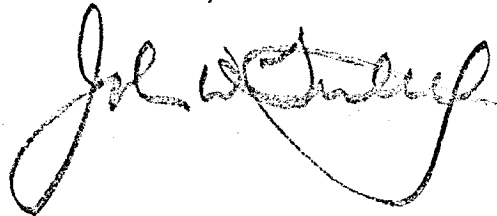### Retrieval of Particular Version: R. H. Campbell

Incremental dump tapes frequently have several versions of the same segment on them. A means for specifying which instance of a segment is desired should be developed. This will enable a user to retrieve a version of a segment other than the last instance, thus overiding the default and currently only version which can be retrieved.

Design of Form: J. M. Grochow

A form must be designed on which retrieval requests are made.

Retrieval Procedure: J. M. Grochow, E. T. Reardon

A retrieval procedure to followed by the operators must be developed and documented.

JWG/jk