September 2, 1981

TO: H. I. Bowers

FROM: C. R. Hudson

SUBJECT: Summary of work performed on the CONCEPT
computer code

In an effort to improve upon the usefulness and accuracy
of the CONCEPT code, the following modifications were made
to CONTAC and CONCEPT:

1) A descriptive title which is stored in each cost model
consisting of up to 80 characters is now printed in the
heading of each page of CONCEPT output.

2) The D-array (detailed cost elements) has been enlarged
to handle up to 400 separate accounts.

3) Taxes that are directly proportional to craft labor (e.g.
social security, workmen's compensation, unemployment) are
now implicitly included in the labor dollars presented in
the estimate. This is accomplished through the use of the
contractor's overhead burden factor (COB) which serves as a
multiplier for all labor accounts. COB should be input in
the cost model as a decimal fraction less than one. Also, any
explicit craft labor taxes stored in the D-array should be
removed.

4) As a result of the changes in item 3), the case-specific
overhead factor (COS) has been deleted. Namelist changes
can be made to COB to change overhead burden on a case-specific
basis.

5) In order to more explicitly account for the craft labor
in the construction services account (Acct. 91), the manhours
in that account are now calculated and printed in the two
digit summary. The total craft manhours as well as the manhours
per kilowatt printed include account 91 manhours. This now
requires that the implicit labor rate in account 91 be input
in the XLR array of the cost model. Also, the manhours in
account 91 must be added to the total craft manhours in the
model (MHT) and optionally to the MHP array (individual two-
digit account manhours).

6) As a result of including the account 91 craft labor
manhours in the total craft manhours, the case-specific manhours
per kilowatt input possible through namelist (AMAN) should
reflect all craft labor manhours rather than just direct craft
labor manhours as stated in ORNL-5470.

I trust these changes are satisfactory. Should you have any
problems or questions, please call on me.