VIII.3.3-LAY-COEF LAYERED COEFFICIENT ROUTING OPERATION

Identifier: LAY-COEF

Operation Number: 11

Parameter Array: The FORTRAN identifier used for the parameter array for this Operation is $P$. The contents of the $P$ array are:

Position Contents

| 1 | Operation version number (integer) |
| :---: | :---: |
| $2-6$ | General name for the reach or point where the Operation is applied |
| 7-8 | Inflow time series identifier |
| 9 | Inflow time series data type |
| 10 | Inflow time series time interval (integer) |
| 11-12 | Outflow time series identifier (blank if routing at a point) |
| 13 | Outflow time series data type (blank if routing at a point) |
| 14 | Outflow time series time interval (integer): $0=$ routing at a point |
| 15 | ```Carryover control indicator (integer): 0 = carryover set (default) 1 = carryover read in with data card``` |
| 16 | Number of layers (integer) |

The remaining positions of the $P$ array are filled as follows: o coefficients beginning with the bottom layer and increasing
o upper flow limits, top layer not needed

Carryover Array: The FORTRAN identifier used for the carryover array is C. The contents of the $C$ array are the residual flows for each layer. The residuals are put in order beginning with the bottom layer. The minimum size of the $C$ array is 1 and there is no maximum size.

## Subroutine Names and Functions:

## Subroutine Function

| PIN11 | Input cards and stores values in the $P$ and $C$ arrays |
| :--- | :--- |
| PRP11 | Print information in the $P$ array |
| PRC11 | Print information in the $C$ array |
| EX11 | Execute the Operation |
| COX11 | Perform carryover transfer |
| PUC11 | Punch information in the $P$ and $C$ arrays |
| TAB11 | Operation Table entry subroutine |

Subroutines PIN11, PRP11, COX11 and PUC11 have the standard argument lists for these subroutines as given in Section VIII.4.3.


SUBROUTINE TAB11 (TO,LEFT, IUSET,NXT,LPO, PO,LCO,TS,MTS,NWORK,NDD, LWORK , IDT)

Function: This is the Operations Table entry routine for the LAYCOEF Operation.

Argument List: The arguments for this routine are similar to the arguments for the Operations Table entry routines for other Operations. A description of the arguments is contained in Section VII.4.2-TAB.

Operation Table Array: The contents of the TO array are:

```
Position Contents
```

1

2

3

4

5

6

7

8

9

```
    The number of this Operation
    Location in the }T\mathrm{ array of the next Operation to be
        executed
    Location of the parameter array for this Operation in
        the P array
    Location of the carryover array for this Operation in
        the C array
    Location of inflow data in the D array
    Location of outflow data in the D array:
        0 = routing at a point
    Location of work space for routed inflow
    Location of work space in the D array for changing
        the time interval:
        0 = not needed
    Location of work space for temporary carryover values
```

