

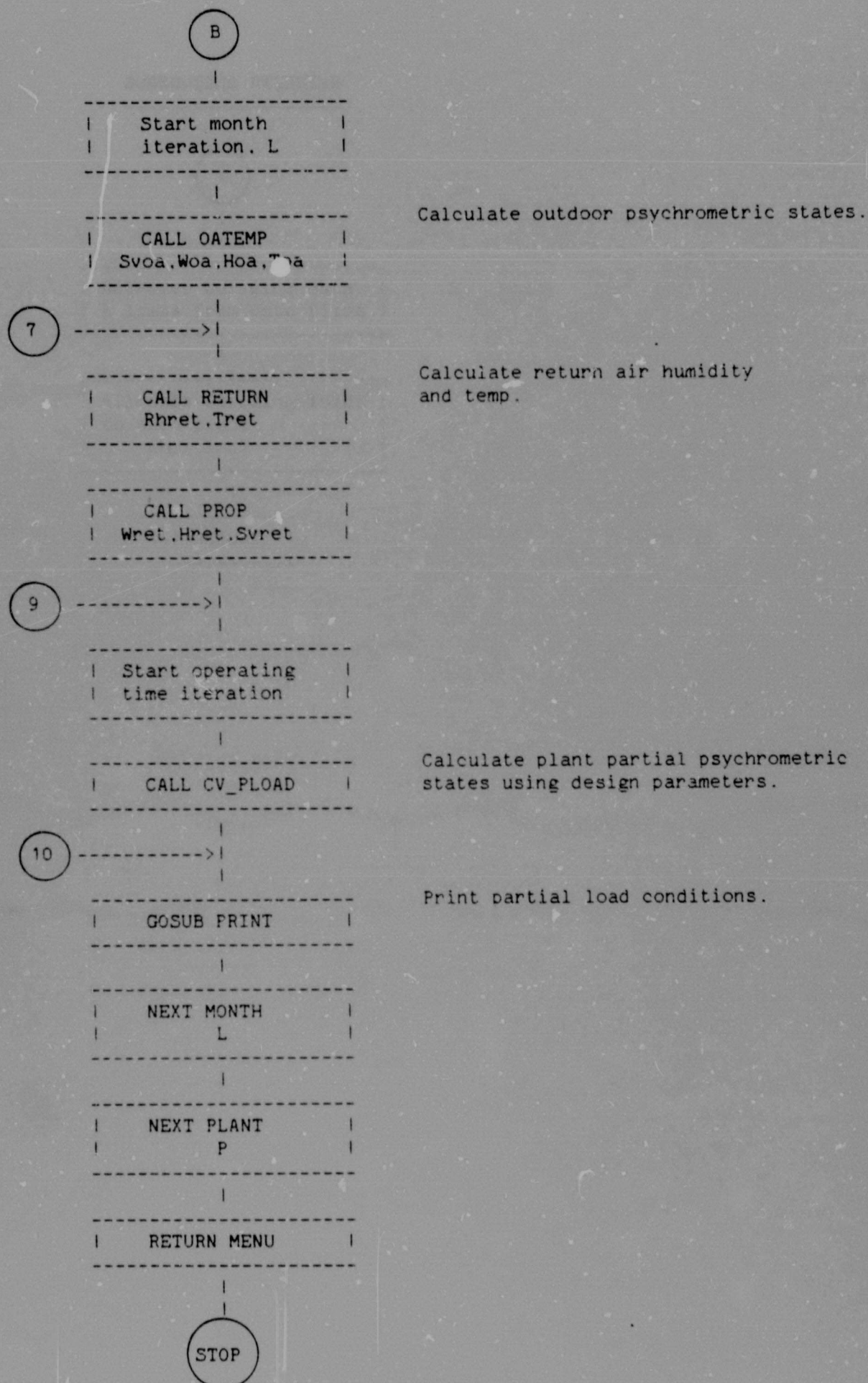


Figure A2.1 : (Cont)

SUBROUTINE RETREIVE

1

Retreive building data
& loads from data files

Allocate building loads
to each plant
Ahps,Ahpl

RETURN

Figure A2.1 : (Cont)

SUBROUTINE PLANT

2

| Input operating times |
| Startp,Endp |

| Input coil temp |
| differential |
| Pdiff |

| RETURN |

SUBROUTINE BYPASS

3

| Input coil bypass |
| factor |
| Bypass |

| SUBEND |

Figure A2.1 : (Cont)

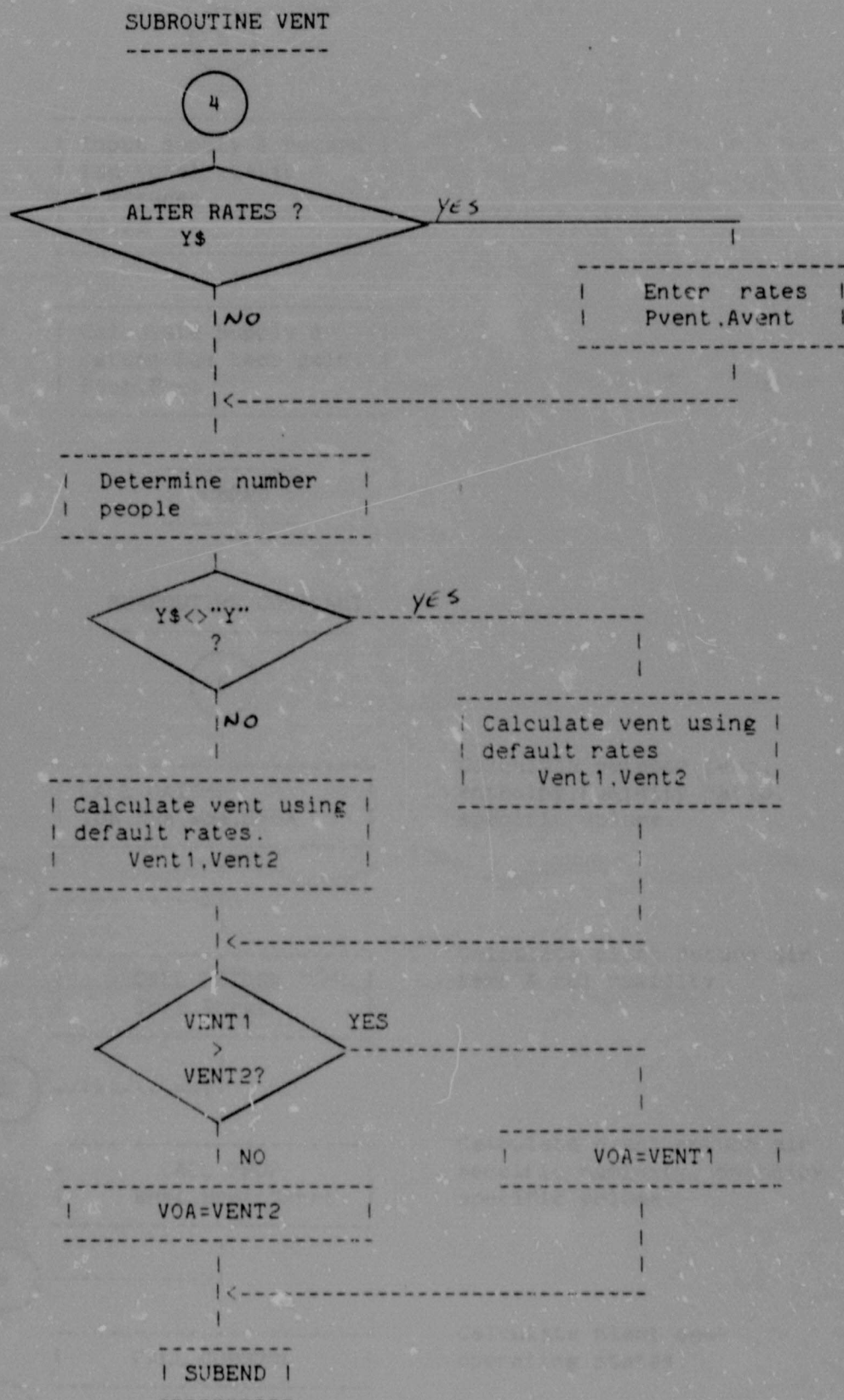


Figure A2.1 : (Cont)

SUBROUTINE FANDUCT

5

```

-----
| Input supply & return |
| fan total static     |
| pressures.           |
| Z1,Z2                |
-----

```

```

-----
| Calculate supply &   |
| return fan temp gain. |
| Fsup,Fret            |
-----

```

SUBEND

SUBROUTINE CONPLANT

6

```

-----
| CALL OATEMP           |
| Toa,Hoa,Woa,Svoa     |
-----

```

Calculate outdoor temp,
enthalpy,humidity ratio,
specific volume.

7

```

-----
| CALL RETURN          |
| Tret,Rhret           |
-----

```

Calculate plant return air
temp & rel humidity.

8

```

-----
| CALL PROP            |
| Wret,Hret,Svret     |
-----

```

Calculate plant return air
specific humidity, enthalpy,
specific volume.

9

```

-----
| CALL CONSVOL         |
-----

```

Calculate plant peak
operating states.

11

RETURN

Figure A2.1 : (Cont)

SUBROUTINE OATEMP

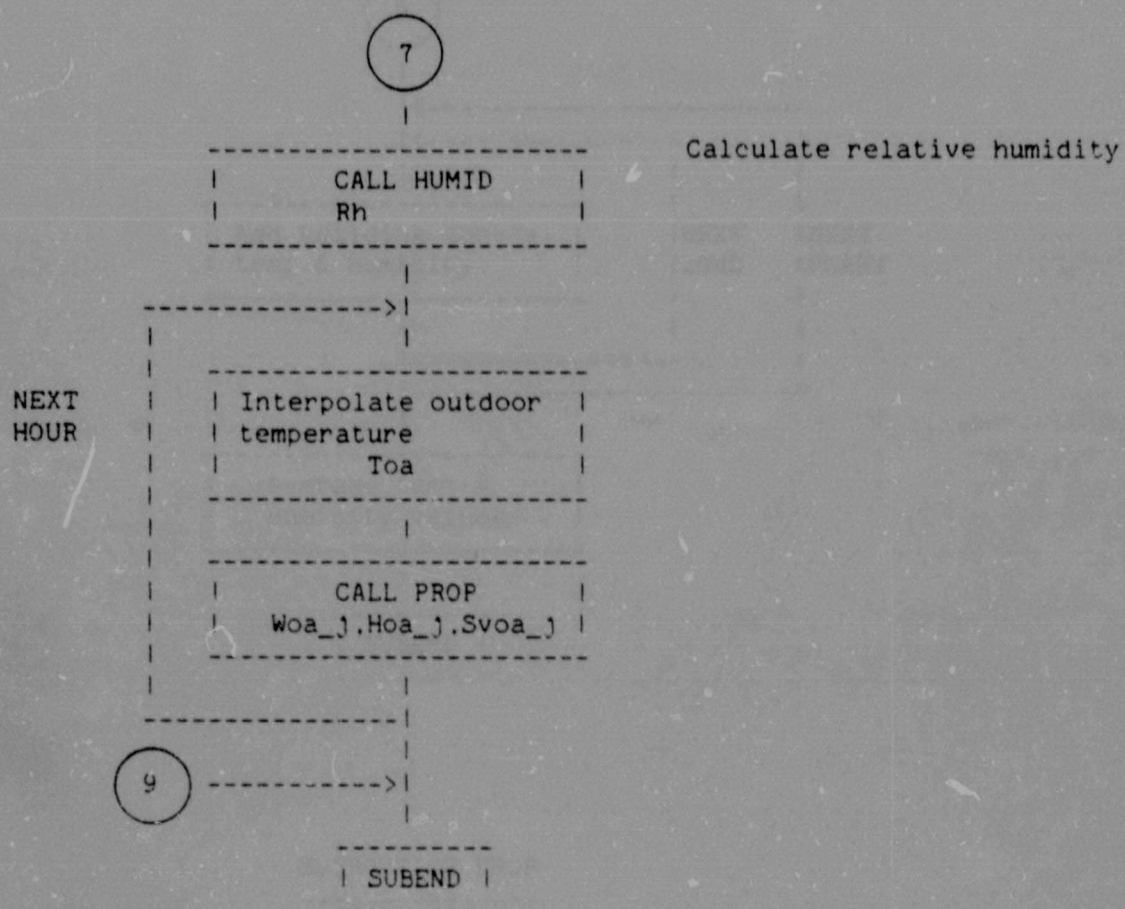
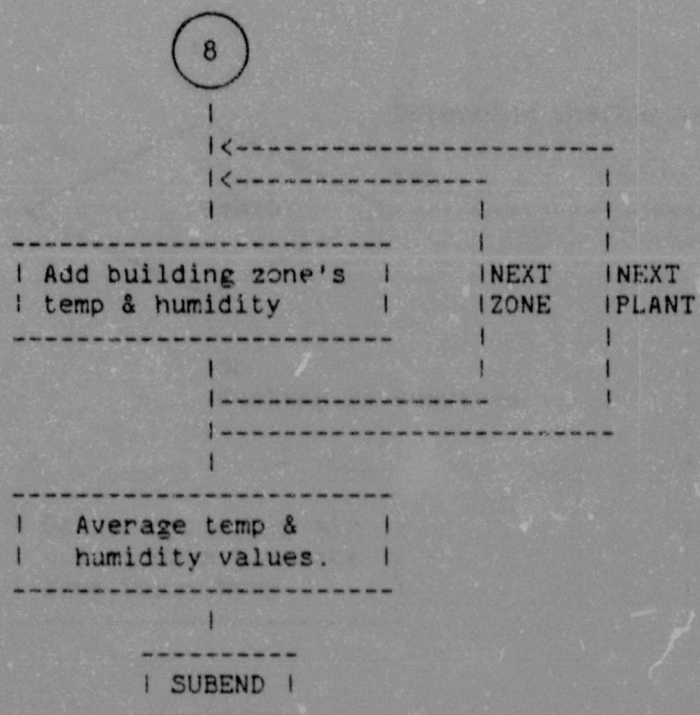


Figure A2.1 : (Cont)

SUBROUTINE RETURN



SUBROUTINE PROP

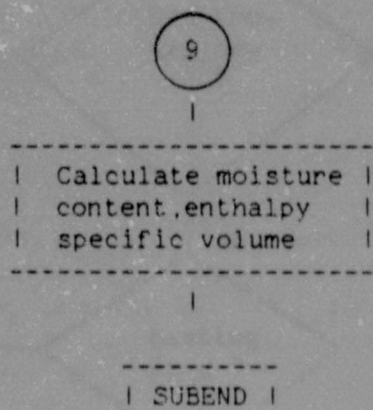


Figure A2.1 : (Cont)

SUBROUTINE CV_PLOAD

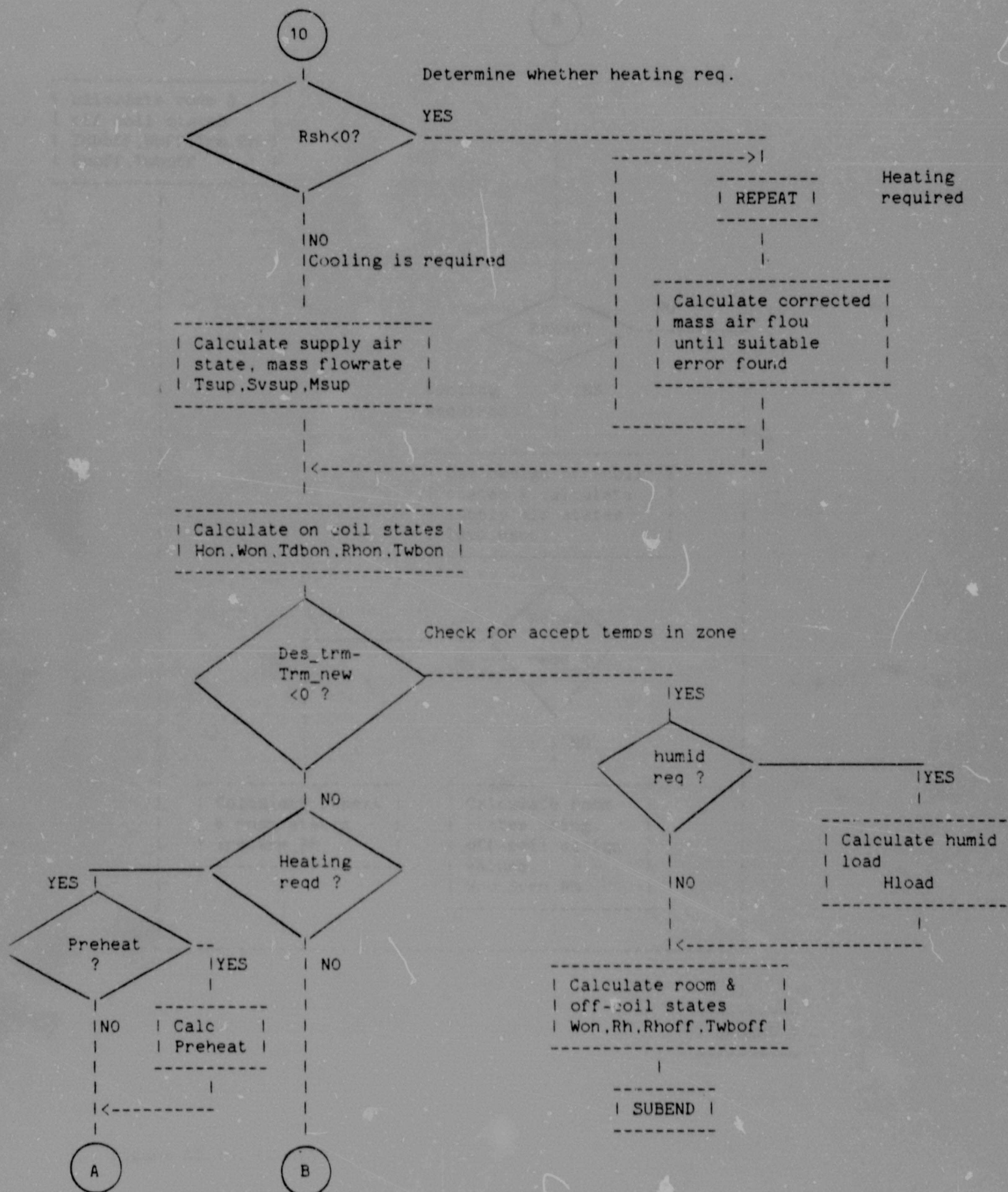


Figure A2.1 : (Cont) .

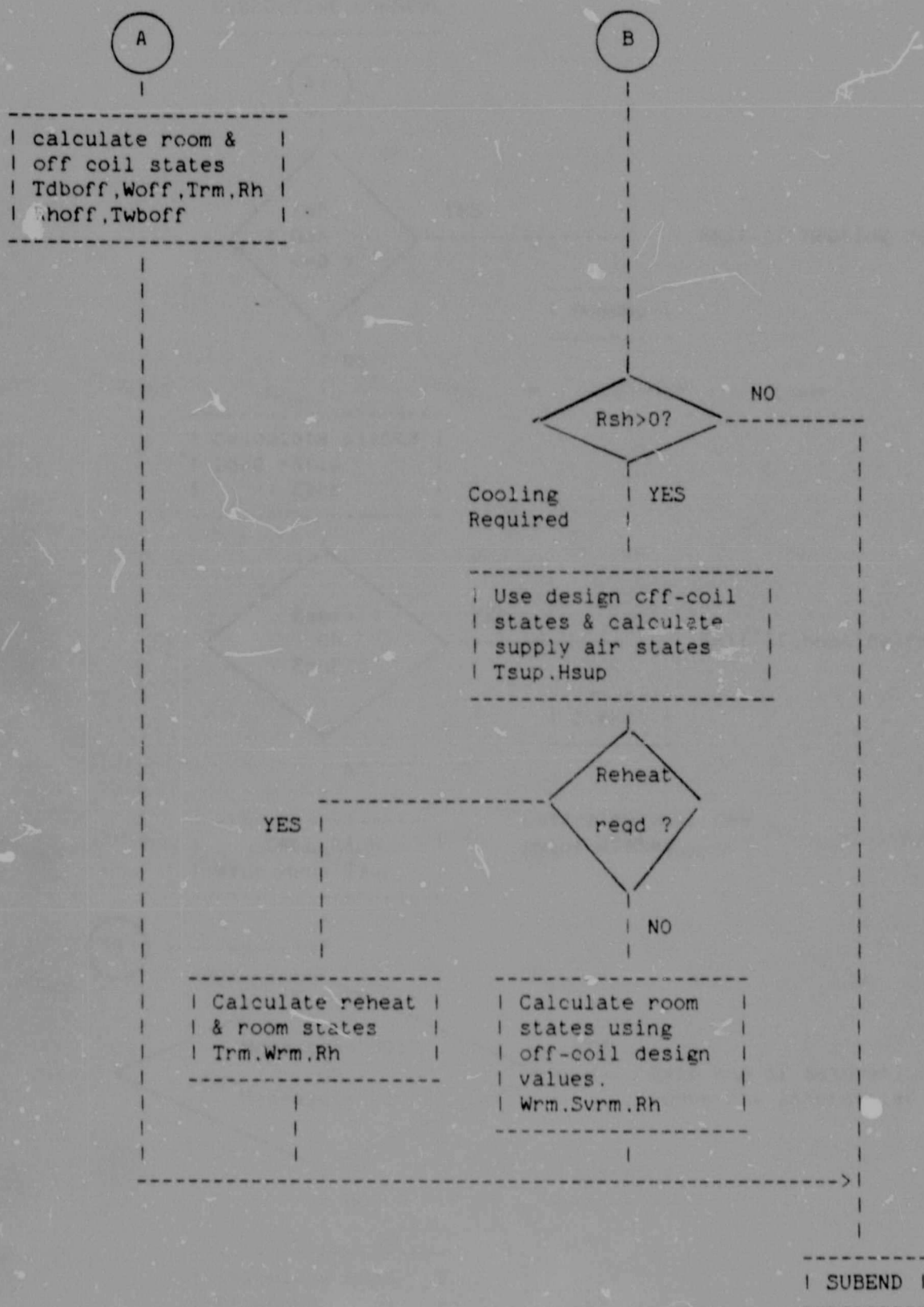


Figure A2.1 : (Cont)

SUBROUTINE CONSVOL

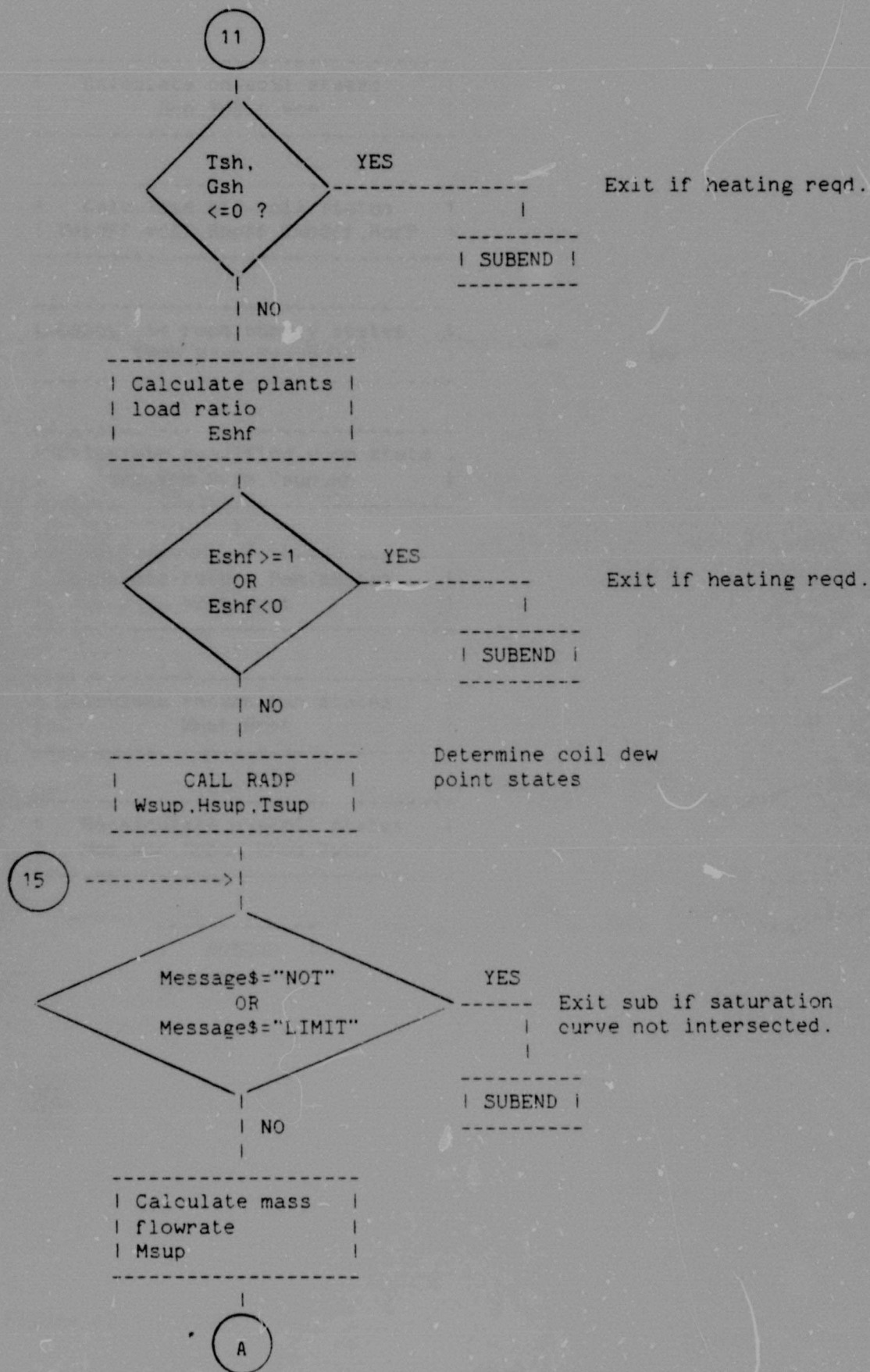


Figure A2.1 : (Cont)

A

| Calculate on-coil states |
| Hon,Tdbon,Won |

| Calculate off-coil states |
| Tdboff,Woff,Rhoff,TwbOff,Hoff |

| Calculate room supply states |
| Tsup,Hsup,Svsup |

| Calculate resulting room state |
| Hrm,Wrm,Svrm,Vsup,Rh |

| Calculate return fan states |
| Wret,Hret |

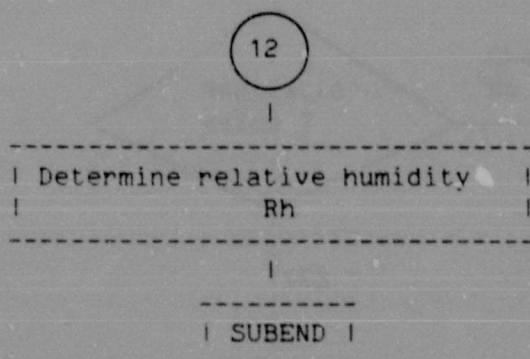
| Calculate return fan states |
| Wret,Hret |

| Recalculate on-coil states |
| Hon,Won,Tdbon,Rhon,Twbon |

| SUBEND |

Figure A2.1 : (Cont)

SUBROUTINE Wet_bulb



SUBROUTINE Relhumid

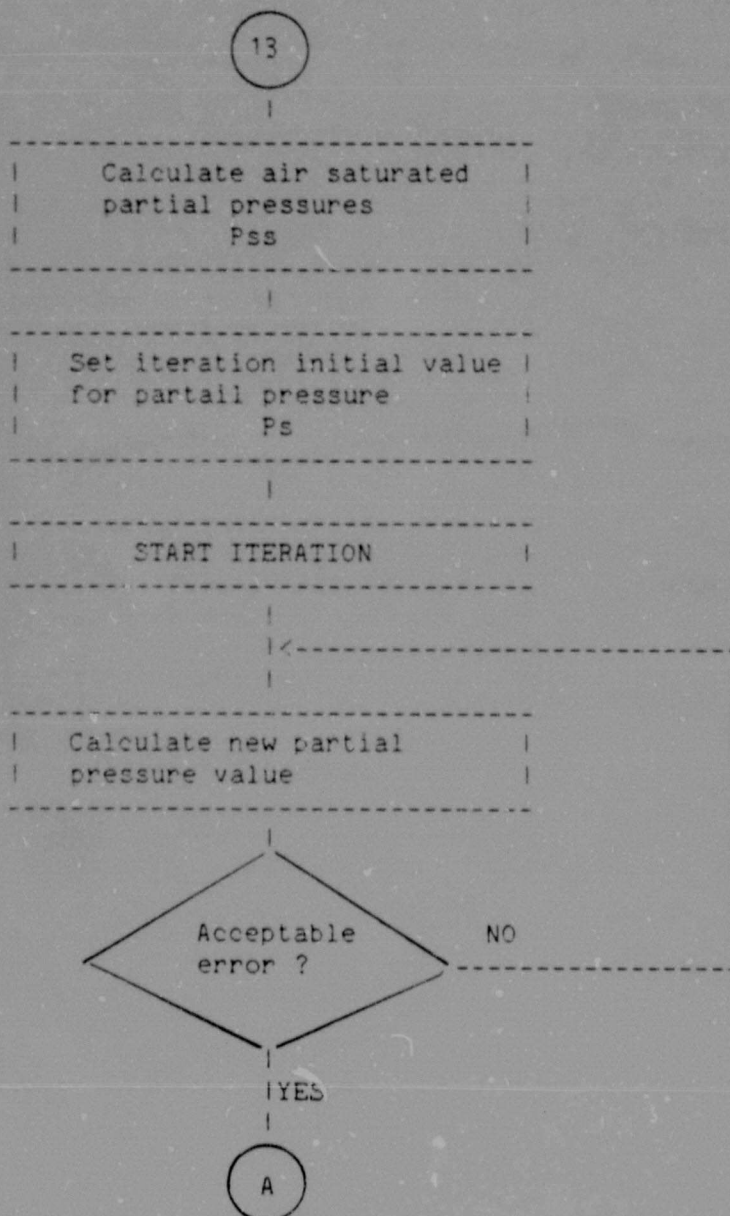


Figure A2.1 : (Cont)

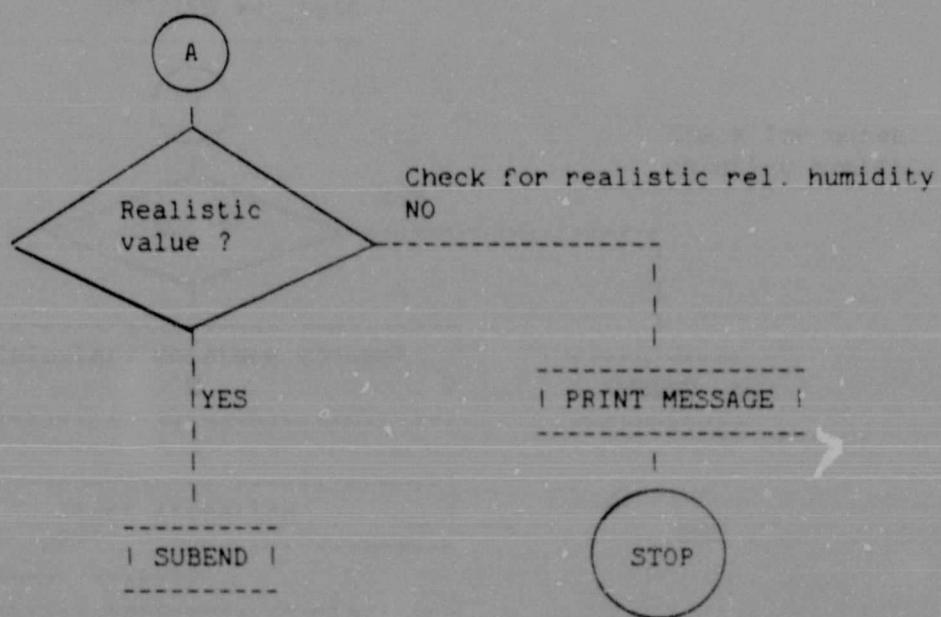


Figure A2.1 : (Cont)

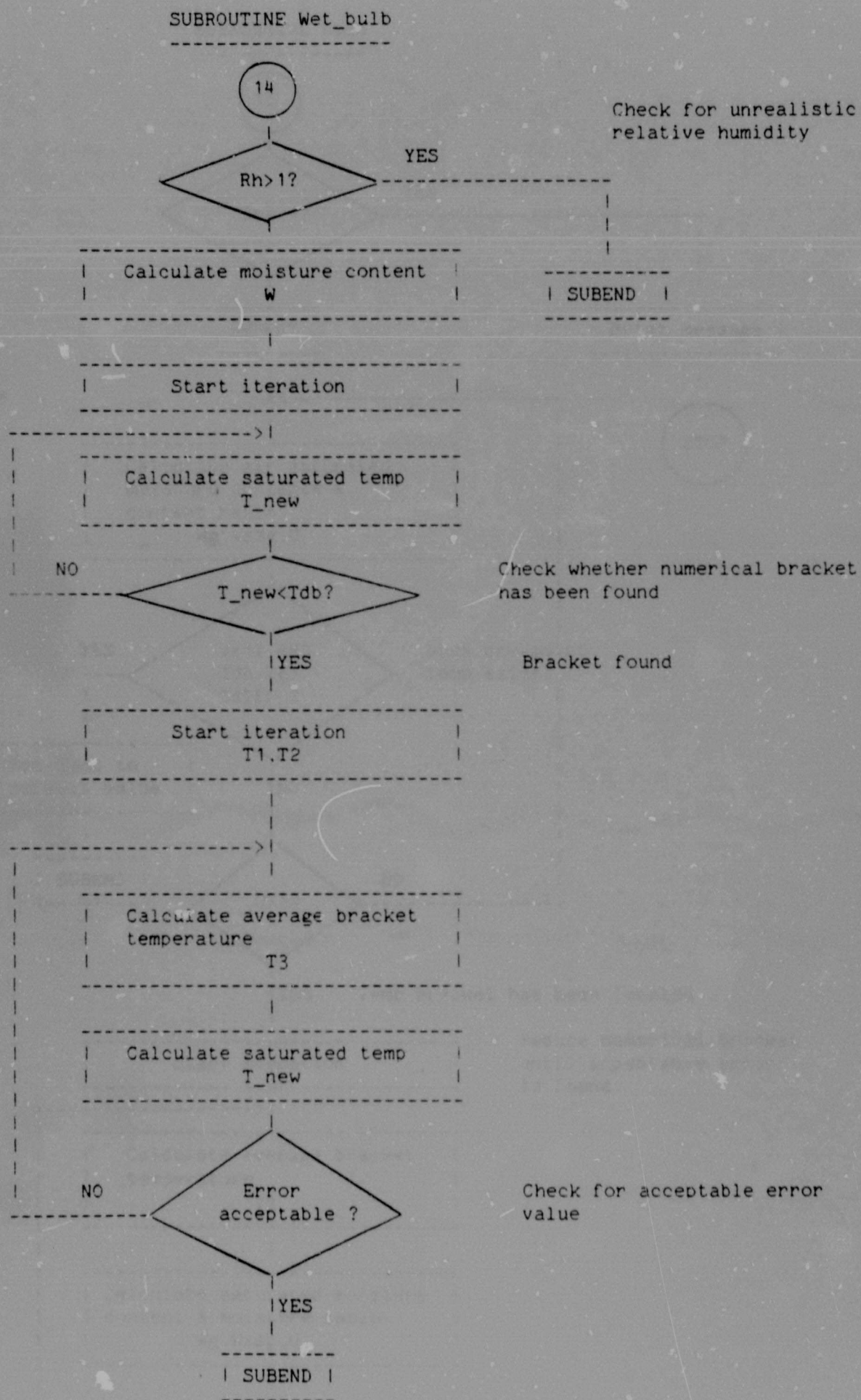


Figure A2.1 : (Cont)

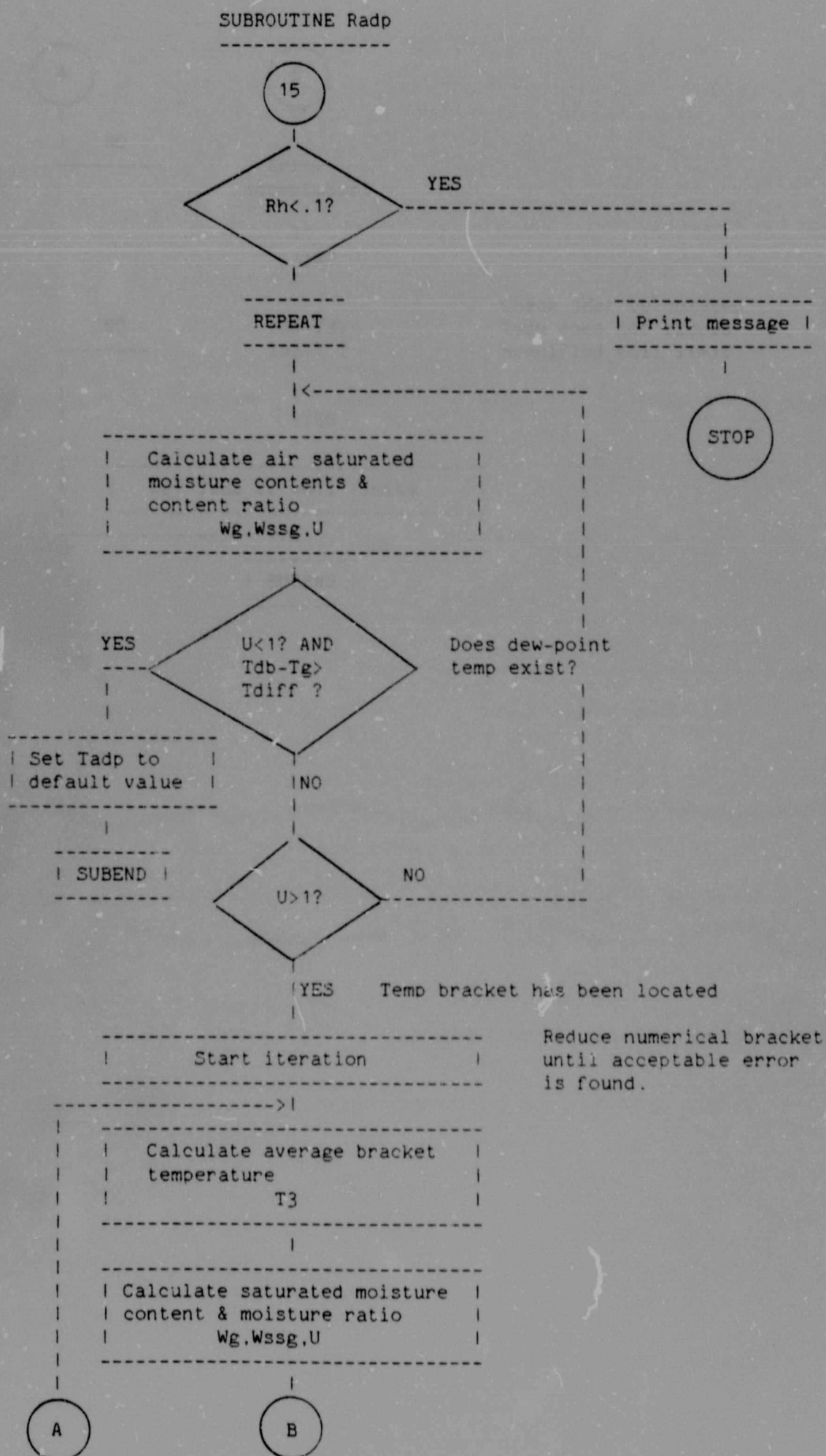


Figure A2.1 : (Cont)

Author Da Silva A J

Name of thesis A computer program for assessing the hourly and peak refrigeration loads of an airconditioning constant volume flow plant 1987

PUBLISHER:

University of the Witwatersrand, Johannesburg

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