Calls to MsgBomb

The MsgBomb ERROR has the following format:

```
Abnormal simulation results detected. Please send this input and weather file to program developers. MsgBomb call argument: WWWW XX-YY Month/Day/Hour ZZZ
```

Where

WWWW is a 4 digit code giving the location where the error was detected as indicated in the following section 2nnn indicates the HVAC air-side SYSTEM simulation subprogram unit 3nnn indicates the HVAC water-side PLANT simulation subprogram unit

XX is the simulation period mode indicator

0 indicates the post-sizing energy simulation mode

-100,-1 indicates sizing for zone air terminals mode

2 indicates sizing for electric generators mode

4 indicates sizing for plenum(s) and meter(s) mode

6 indicates sizing for circulation loops(s)/pump(s) mode

8 indicates sizing for heat rejection unit(s) mode

10 indicates sizing for boiler(s)/chiller(s) mode

12 indicates sizing for air-handlers mode

14 indicates sizing for zone air terminals mode

YY is the initialization indicator

1-7 indicates the simulation is within the initialization period

0 indicates the simulation has finished initialization and has begun

is the scheduled day of the week the error was detected (Sun-Sat, Hol is holiday, HDD is heating design day and CDD is cooling design day)

Month/Day/Hour tell the time step the error was identified (hour is 1-24 daily loop index not the schedule hour)

In the SYSTEMS subprogram (Sys.lis)

In Subroutine AHUs(Mode) Calculations common to all AHU types. Called by for each HVAC system Call MsgBomb(2001) at AHCom 533

In Subroutine Coil_DX(Mode, Kcc) Simulates a DX cooling coil in a central AHU. Call MsgBomb(2002) at CIDX 902

In Subroutine Terminal_CtrlZone(Mode) Simulates the control zone of a single-zone system IF (<sy:UNIT-STAGING> .eq. 0) Call MsgBomb(2003) at TrmCZ 613 Call MsgBomb(2004) at TrmCZ 626

In Subroutine Terminal_DualDuct(Mode) Simulates a dual-duct mixing box

Call MsgBomb(2005) at TrmDD 490 Call MsgBomb(2006) at TrmDD 494

In Subroutine Terminal_IU(Mode) Simulates an two-pipe or four-pipe induction unit with zonal heating and cooling. Call MsgBomb(2007) at TrmIU 604

In Subroutine Terminal_Parallel(Mode) Simulates a parallel fan-powered VAV induction terminal

Call MsgBomb(2008) at TrmPar 678 Call MsgBomb(2009) at TrmPar 682 Call MsgBomb(2010) at TrmSer 844

In Subroutine Terminal_Series4(Mode) Simulates a series fan-powered VAV induction terminal where the INDUCED-AIR-SRC is the cold deck

Call MsgBomb(2011) at TrmSr4 719

In Subroutine Terminal_StgVol(Mode) Simulates the control zone of a two-speed or staged-volume system IF (<sy:UNIT-STAGING> .eq. 0) Call MsgBomb(2013) at TrmStg 566

In Subroutine Terminal_Subzone(Mode) Simulates a subzone of a single zone system, or a slave zone of another terminal. The supply air temperature and flow is determined by the master zone.

Call MsgBomb(2014) at TrmSub 376

In Subroutine Terminal VAV(Mode) Simulates a single-duct VAV or constant-volume terminal

Call MsgBomb(2015) at TrmVAV 462 Call MsgBomb(2016) at TrmVAV 468

In Subroutine TerminalDCV(CFMind Calculates the flow from the mixed air plenum needed to provide the required ventilation air to a zone

Call MsgBomb(2017) at TrmDCV 85

In Subroutine AH_ColdDeck(Mode) Simulates a cooling coil, including an optional waterside economizer and dehumidification

Call MsgBomb(2018) at AHCD 105

In Subroutine AH_MixedAir(Mode) Simulates an outside-air economizer, and other mixed-air auxiliaries such as preheat, desiccant dehumidifiers, heat recovery, and evaporative precoolers

Call MsgBomb(2020) at AHMxAr 405 Call MsgBomb(2021) at AHMxAr 417

In PLANT subprogram (plt.lis)

In Subroutine CircLoopPlant(Jlp) Allocates load to primary equipment and calls equipment simulations. Called sequentially for each primary loop

Call MsgBomb(3001) at CirLpP 709

Call MsgBomb(3002) at CirLpP 670

Call MsgBomb(3003) at CirLpP 730

Call MsgBomb(3004) at CirLpP 742