```
command (unsaturated)


        !   saturate the overall command using the pitch angle limits:
          PitComT   = MIN( MAX( PitComT, PC_MinPit ), PC_MaxPit )          ! Saturate
the overall command using the pitch angle limits
    ENDIF

      DO K = 1,NumBl ! Loop through all blades
         PitRate(K) = ( PitComT - BlPitch(K) )/ElapTime                    ! Pitch rate
of blade K (unsaturated)
         PitRate(K) = MIN( MAX( PitRate(K), -PC_MaxRat ), PC_MaxRat )    ! Saturate the
pitch rate of blade K using its maximum absolute value
         PitCom (K) = BlPitch(K) + PitRate(K)*ElapTime                   ! Saturate the
overall command of blade K using the pitch rate limit
      ENDDO          ! K - all blades

   ! Reset the value of LastTimePC to the current value:
      LastTimePC = ZTime

    IF ( controlDebug ) THEN
        WRITE(*,*)  'Time=',ZTime,'pitCount=',pitCount,'HSS_Spd=',HSS_Spd,&
                  'GenSpeedF=',GenSpeedF,'PitCom=',PitCom(1),'PitComP= ',&
                  PitComP,'PitComI= ',PitComI,'PitComT= ',PitComT
                  pitCount=pitCount+1
    ENDIF

ENDIF

BlPitchCom_out = PitCom                      ! Pass the most recent blade pitch command
out of the subroutine

RETURN
END SUBROUTINE PitchCntrl
```