

LISTING 1 WHIP-ROUTINE OUTPUT FUNCTION

```
Whip      MOVWF    My_Data          ; the data to transmit is in W
          MOVLW   8
          MOVWF   Bit_Counter    ; set up for eight bits
          BSF    My_Port, My_Bit  ; ensure output is initially high

B1:      RLF     My_Data, F        ; data to send is in CC
          BTFSS  STATUS, CC
          BCF    My_Port, My_Bit  ; zero, so falling edge is early
          CALL   Delay_10us       ; if a one, pin stays high for 10us
          BCF    My_Port, My_Bit  ; if a one, edge falls here
          NOP
          BSF    My_Port, My_Bit  ; ensures output pin is low for 0.2us min
          DECFSZ Bit_Counter      ; rising edge here clocks data into HCl64
          GOTO   B1

          RETURN
```