

- 1 Read the status of the Main Magnet power supply.  
If ON, then do nothing *[output a message "MMPS already on"]*
- 2 Get input from the user:
  - a, Fullscale current value to use (amps)?  
Check that value entered is valid: 18,500 - 20,000 A
  - b, Final current value?  
Check that value entered is valid: 17,500 - 18,500 A
- 3 Provide a check list for user:
  - a, Are Cooling Towers RUNNING?
  - b, Are the AI-ALCW heat-exchangers valves set appropriately?
  - c, Is the XT page TWV watchdog running and the transfer status OK?
  - d, Is the TWV integral time (when RF is OFF) set to 10 Seconds?
  - e, Are the Trimcoils ON?
- 4 Set "CONSOLE KNOB" to "Ignore" and turn ON TW: MG 171 Digi  
  
*[Note: It is required that the Main Magnet power supply Trim Coil #54 feedback is OFF (TW: MG 171 Digi= ON) for the duration of this run-up sequence]*
- 5 Check the MMPS interlocks status to see if it can be turned on.  
*[if not, output a message "Interlocks not Ok"]*
- 6 Request input: "Confirm that MMPS is to be turned on":  
If "No" goto 12  
If "Yes" proceed.
- 7 Set the "CURRENT Setpoint" to the full-scale value (from 2a)
- 8 Turn ON the power supply and check that after 60 seconds "CURRENT Measured" is >1,000 A. *[if not, output a message to this effect]*
- 9 Pause for 15 minutes.
- 10 Set the "CURRENT Setpoint" to the final current setting value (from 2b)
- 11 Pause for 15 minutes.
- 12 Set "CONSOLE KNOB" to "Use" and turn OFF TW: MG 171 Digi.  
*[output a message : "MM run-up sequence complete"]*

Note: If program sequence is aborted for any reason (eg. Interlock not Ok) then output a message "MMag run-up failed" but the steps in 12 must be completed (minus "completed" message).