# XFOIL Gouge — EA 303 – 2006

1. Start XFOIL (double-click "xfoilP4.exe").
2. The prompt should be "XFOIL c>"
2. Load the file "clarky14sf.dat"
3. Type "PPAR" to view airfoil contour/nodes.
   Hit "Enter" in command window to return.
4. Enter .OPER menu by typing "oper"
   The prompt should be ".OPER: c>"
5. Default is inviscid mode. Change to viscous:
   Enter "v," then type the value for Re.
   Enter "m," then type the Mach no.
   The prompt should be ".OPERv c>"
6. Set iteration limit: Enter "iter" then type "100"
7. Adjust BL calculations to account for a slighty "dirty" tunnel, like the ENT:
   Enter "Vpar," then type "n," then type "7."
   Hit "Enter" twice.
8. To run an AOA value, type "alfa 0" or "alfa 5," etc.
9. Save the plot hardcopy: type "hard"
10. Save the Cp data by typing "cpwr"
    Enter a filename like "AOAØØ.dat" or "AOAØ5.dat"
11. When done, hit "Enter" to return to the main menu ("XFOIL"). Then type "quit."
12. Turn the plot file "plot.ps" into a PDF by using Acrobat Distiller (just double-click the file).

this will append all plots into the same file.