Summary of acquiring VMEC input file for Hill and Well configurations in the HSX Stellarator.

Step 1: Identify coil currents and initial guesses for LCFS.



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|  | I chose to use the 5th (from the inside) flux surface as the LCFS for VMEC. R\_LCFS,BP =1.503 |
|  | I chose to use the 4th (from the inside) flux surface as the LCFS for VMEC. R\_LCFS,BP =1.509 |
|  | I chose to use the 6th (from the inside) flux surface as the LCFS for VMEC. R\_LCFS,BP =1.511. (2nd surface not shown-it’s in island zone) |
|  | I chose to use the 2nd (from the inside) flux surface as the LCFS for VMEC. R\_LCFS,BP =1.508 |
|  | I chose to use the 2nd (from the inside) flux surface as the LCFS for VMEC. R\_LCFS,BP =1.511 |
|  | I chose to use the 3rd (excludes 16/15 island chain) and 8th (includes 16/15 island chain) flux surfaces (from the inside) as the LCFS for VMEC. R\_LCFS,BP =1.512, 1.517 |
|  | I chose to use the 2nd (from the inside) flux surface as the LCFS for VMEC. R\_LCFS,BP =1.516 |
|  | I chose to use the 5th (from the inside) flux surface as the LCFS for VMEC. R\_LCFS,BP =1.519 |
|  | I chose to use the 5th (from the inside) flux surface as the LCFS for VMEC. R\_LCFS,BP =1.519 |
|  | I chose to use the 5th (from the inside) flux surface as the LCFS for VMEC. R\_LCFS,BP =1.487 |