

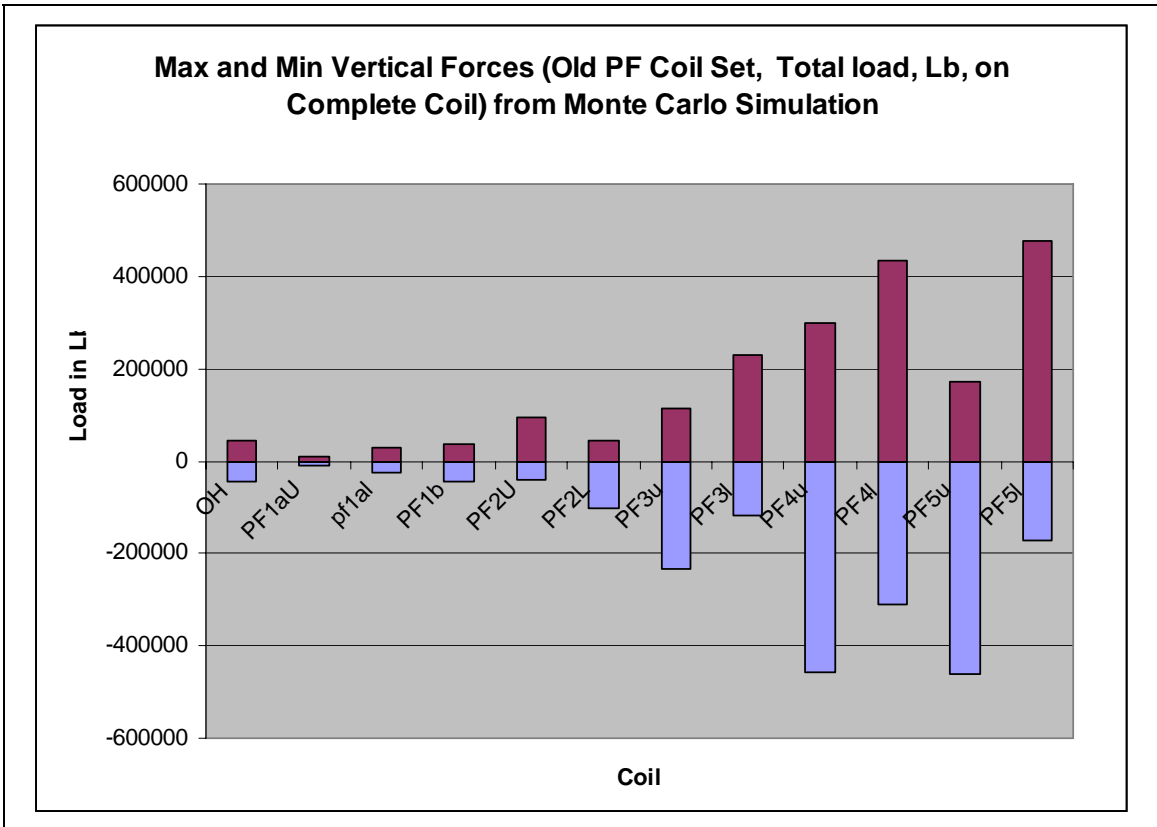
PF System Influence Coefficient/Monte Carlo Analysis (Old Coil Set)

Coil	Min Vert Lbs	Max Vert Lbs
OH	-44703.3	44865.5
PF1aU	-9380.87	9084.877
pf1aI	-26427.2	28692.54
PF1b	-42865.9	38149.79
PF2U	-38705.8	93549.09
PF2L	-101868	44003.45
PF3u	-232725	112524.4
PF3I	-119168	231238.1
PF4u	-457283	299509.4
PF4I	-309720	432394.5
PF5u	-459762	172572.3
PF5I	-171652	476311.6

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! True Basic Monte Carlo Simulation
! Current Random Assignments based on Current
limits
let cur(1)=-24+rnd*48 !OH
let cur(2)=-24+rnd*48 !PF1aU
let cur(3)=-24+rnd*48 !PF1aI
let cur(4)=-10+rnd*20 !PF1b
let cur(4)=-10+rnd*20 !PF1b
let cur(5)=rnd*20 !PF2: -0/+20kA
let cur(6)=rnd*20 !PF2: -0/+20kA
let cur(7)=-16+rnd*24 !PF3: -16/+8kA
let cur(8)=-16+rnd*24 !PF3: -16/+8kA
let cur(9)=-20+rnd*35 !PF4: -20/+15kA
let cur(10)=cur(9) !PF4: -20/+15kA !PF4I
in series with PF4u
let cur(11)=rnd*(-32) !PF5: -32/+0kA
let cur(12)=cur(11) !PF5I in series with
PF5u: -32/+0kA
    
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Coil Current Ranges from
Neumeyer, Hatcher, and Woolley – Need
checking and updating for the Center
Stack Upgrade



Vertical Force Comparison for PF4 and PF5 Coils Powered Individually

	PF4 MAT	PF5 MAT	Lbf Total	Lbf Total
NTFTM PF4	-0.26		0	-18830
NTFTM PF5		-0.768	-207717	0
Monte Carlo Code (Neumeyer Influence Coefficients for old coil geometry			-204798	-20794

