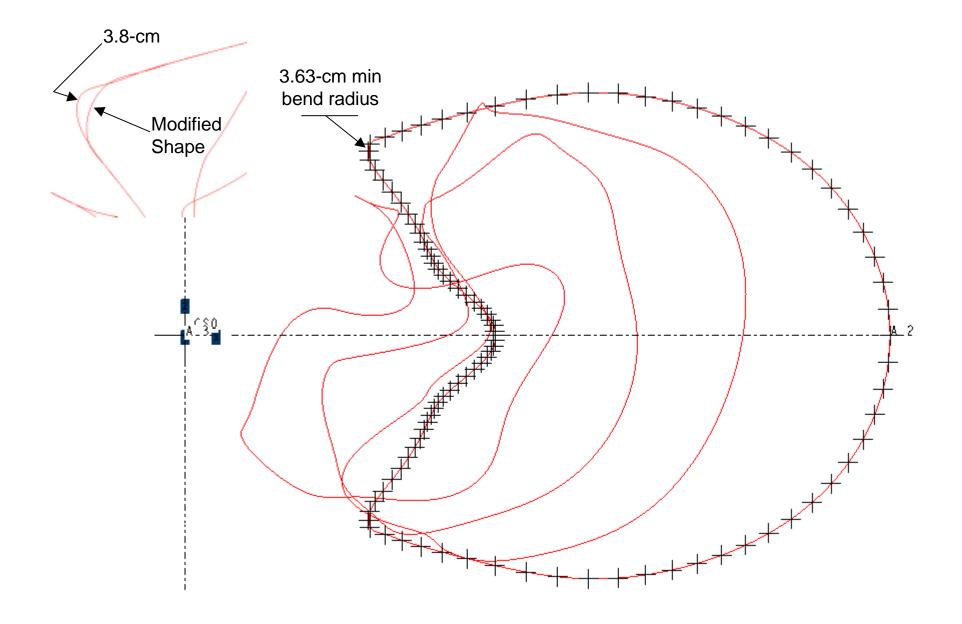
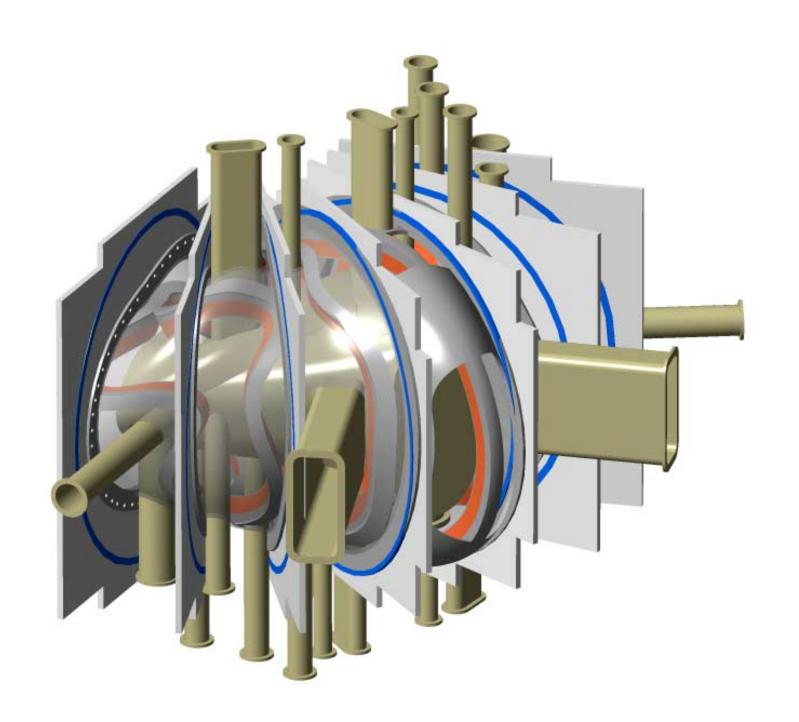
Status of Modular Coil Design / Analysis

- FE model preparation using existing ProE models has begun (each coil modeled as asm of I-beam, mohawks, shell, flanges)
- Minor problems with coil geometry are being fixed (symmetry and bends in coil #4, twist in coil #1)
- Working on redefine of coil as single merged solid (benefit to analysis, rapid prototyping of models)
- Schedule is tight when QOS, fault analyses are considered





EM / Structural Analysis Schedule

Fask Name	Duration	Start	Dec 3, 1		Dec 10,	Dec 10, '00		Dec 17, '00		100	Dec 31,1	Dec 31, '00		Jan 7, 101	
			SMI	WTF	S S M 1	WITE	SSMT	W T F S	SMIT	W T F	SSMT	WITES	S M	WTF	SSMT
Prepare integrated EM / structural model	15 days	Fri 12/1/00									8 8 8 8 8 8		188		
Fix coil crimp and twist	3 days	Fri 12/1/00	10000		380		383	- 8	111111		18000		100		
Redefine shell as merged solid	5 days	Mon 12/4/00					110	- 8			11000				
NCSX Project Meeting	2 days	Tue 12/19/00	100	1 1	0.00		+1	2/19			31333				
Perform EM analysis	10 days	Fri 12/22/00	100		0.00		300	Ĭ.							
Perform stress analysis	5 days	Tue 1/16/01	100		010		310		11 11 11 11		1 1 1 1 1 1		100		
Document results	5 days	Tue 1/23/01	100		0B0		383		111111		33000		100		
NCSX Project Meeting	2 days	Tue 1/30/01	100				110				1 1 1 1 1				
Modify model and rerun	5 days	Tue 1/30/01	100	1 1	0.00		100				32333				
Analyze fault conditions	15 days	Tue 2/6/01	100		100		100				11000				
Perfrom QOS coil analysis	25 days	Mon 2/12/01	100		300		310				1 1 1 1 1 1		100		
NCSX Project Meeting - Drafts Due	2 days	Tue 2/27/01	100		3 B S		38.0		H		3 3 3 3 3		188		
Prepare final report - NCSX	3 days	Tue 2/27/01	100				310		111111		11000		100		
Prepare final report - QOS	3 days	Mon 3/19/01	10								11000				
QOS documentation due	0 days	Tue 3/20/01	100		0.00		110		10000		35333		100		0.5000

