

**NCSX Project Meeting**  
**June 10, 2008**

**Background:** This is a report of the Project Meeting held Tuesday, June 10<sup>th</sup>. The meeting was moved to Tuesday due to the Engineering Department picnic.

The focus of this meeting was to review the proposed revised NCSX Project closeout activities and to discuss the overall closeout plans.

**Meeting Minutes:**

**Safety Briefing** – Jeff Harris presented a Safety Minute on fall protection. He talked about the risk of falls when working on an experimental facility, citing a near miss he had on ATF.

**Project Status** – Don Rej and Ron Strykowski updated the Project on the current status and plans for providing an “orderly shutdown” on NCSX. They went over the list of MIE jobs being closed out and identified the three new jobs (equipment storage, documentation, publication). The RLMs are expected to move people off the old jobs as they are closed out and onto the new jobs or to other projects as appropriate. Both presentations attached.

**Disposition of Equipment** – Erik Perry went over the latest equipment plan, and asked for further input. Update attached.

**Document Capture and Archiving** – Phil Heitzenroeder Phil talked about the documentation job, the initial estimate, and your checklist. Job managers are asked to develop their own documentation plans using the checklist as a guide.

**Publications** - Hutch Neilson presented the publication plan and asked for feedback within two weeks.

**Closeout Activities** - Over the next week or two, meetings will be scheduled with each job manager and the RLMs, project office, and Mike Williams to review their closeout plans- completion of old scope, plans for new scope, transition from old to new.

**NCSX Project Meeting  
June 10, 2008**

**Attachments**

- **Meeting Minutes**
- **Close Out Update – Don Rej**
- **Preliminary Closeout Plan – Ron Strykowski**
- **NCSX Mothball Hardware Estimate – Erik Perry**
- **NCSX Close Out Check List – Phil Heitzenroeder**
- **Publications Plan – Hutch Neilson**

# NCSX Project Closeout Update: June 10, 2008



- **Attention to Safety in Times of Change**

- Proposed Closeout Scope Submitted to DOE

- Job Manager Meetings

- Closeout Plan

- Closeout Plan

R. Strykowski

- New Scope

- Materiel Disposition

E. Perry

- Document & Data Management

P. Heitzenroeder

- Archival Journal Publications

G. H. Neilson

INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days)	Forecast Start	Forecast Finish	% Cmplt	ETC	FY08													FY09													FY10
									M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O									
<b>Brooks</b>																																			
<b>Job: 8204 - Systems Analysis-BROOKS</b>																																			
X	H	8204-FY08Z	Syst Analysis, studies & tech assurance FY08 etc	85*	02JUN08*	30SEP08	LOE	41,999.27	[Gantt bars for Brooks]													BROOKS ZHANG etc =107hr ; FAN etc =79hr ; etc =51													
<b>Brown</b>																																			
<b>Job: 1803/1805- FPA Tooling/Constr-BROWN</b>																																			
<b>Station 3-Modular Coil to VVSA Assembly</b>																																			
X	D	1803S3-4	Generate laser screen trace drawings (1/2 period	15	25JUN08	16JUL08		10,688.40	[Gantt bars for 1803S3-4]													SMITH etc =40hr ; MORRIS etc =40h													
X	D	1803S3-6	Station 3 simulation detail model	21	02JUN08*	30JUN08		22,704.00	[Gantt bars for 1803S3-6]													BROWN etc =24hr ; SMITH etc =120													
X	D	1803S3-7	VV/MC clearance study (for VVSA1)	64*	01APR08A	30JUN08	75	1,537.80	[Gantt bars for 1803S3-7]													SMITH etc =10hr ;													
X	D	1803S3-7B	VV/MC clearance study (for VVSA 2 and 3)	11	01JUL08*	16JUL08		12,302.40	[Gantt bars for 1803S3-7B]													SMITH etc =80hr ;													
X	D	1803S3-9	Oversite, cost and schedules, reviews	171*	31JAN08A	30SEP08	LOE	3,520.75	[Gantt bars for 1803S3-9]													BROWN etc =20hr ;													
X	D	1805S3-2	Left side base grout plates	70*	24MAR08A	30JUN08	99*	2,620.62	[Gantt bars for 1805S3-2]													41etc =02\$ ;													
X	D	1805S3-3	MCHP lift fixture frame weldment	70*	24MAR08A	30JUN08	99*	9,091.44	[Gantt bars for 1805S3-3]													41etc =07\$ ;													
X	D	1805S3-4	Lift fixture mounting bracket weldments	70*	24MAR08A	30JUN08	99*	14,717.70	[Gantt bars for 1805S3-4]													41etc =12\$ ;													
X	D	1805S3-5	Reworked laser frame structure	70*	24MAR08A	30JUN08	99*	1,117.80	[Gantt bars for 1805S3-5]													41etc =01\$ ;													
X	D	1805S3-6	Right inboard laser frame structure	70*	24MAR08A	30JUN08	99*	1,055.70	[Gantt bars for 1805S3-6]													41etc =01\$ ;													
X	D	1805S3-7	Left inboard laser frame structure	70*	24MAR08A	30JUN08	99*	844.56	[Gantt bars for 1805S3-7]													41etc =01\$ ;													
X	D	1805S3-8	Laser screen lexan sheet (1/8 x 48" x 96")	70*	24MAR08A	30JUN08	99*	546.48	[Gantt bars for 1805S3-8]													41etc =00\$ ;													
X	D	1805S3-9	Estimate for Station 2 type alignment system	70*	24MAR08A	30JUN08	99*	4,024.08	[Gantt bars for 1805S3-9]													41etc =03\$ ;													
X	D	1805S3-100	Hardware & Misc items	70*	24MAR08A	30JUN08	99*	1,242.00	[Gantt bars for 1805S3-100]													41etc =01\$ ;													
X	D	1805S3-110	Misc assembly Cost	70*	24MAR08A	30JUN08	99*	10,060.20	[Gantt bars for 1805S3-110]													41etc =08\$ ;													
X	D	1805S3-201	MC base support system (left / rt side)	70*	24MAR08A	30JUN08	99*	15,512.58	[Gantt bars for 1805S3-201]													41etc =12\$ ;													
X	D	1805S3-202	Hilman roller - 8-0T plus R & U guides	70*	24MAR08A	30JUN08	99*	2,943.54	[Gantt bars for 1805S3-202]													41etc =02\$ ;													
X	D	1805S3-203	AirLoc Wedgmount Precision Levelers	70*	24MAR08A	30JUN08	99*	707.94	[Gantt bars for 1805S3-203]													41etc =01\$ ;													
X	D	1805S3-204	Lift fixture mounting bracket weldments	70*	24MAR08A	30JUN08	99*	4,409.10	[Gantt bars for 1805S3-204]													41etc =04\$ ;													
X	D	1805S3-205	Estimate for Station 2 type alignment system	70*	24MAR08A	30JUN08	99*	1,204.74	[Gantt bars for 1805S3-205]													41etc =01\$ ;													
X	D	1805S3-206	Hardware & Misc items	70*	24MAR08A	30JUN08	99*	372.60	[Gantt bars for 1805S3-206]													41etc =00\$ ;													
X	D	1805S3-207	Misc assembly Cost	171*	31JAN08A	30SEP08		5,005.26	[Gantt bars for 1805S3-207]													41etc =04\$ ;													
<b>Job: 8203 - Design Integration-BROWN</b>																																			
X	H	8203FY08-4	General integration activities	170*	01FEB08A	30SEP08	LOE	13,991.20	[Gantt bars for 8203FY08-4]													BROWN etc =40hr ; UPCA VAGE etc =60h													

Run Date 10JUN08 09:34

FORECAST SCHEDULE  
Progress Bar  
Critical Activity

0805

NCSX Project  
Closeout Plan  
\*\*PRELIMINARY\*\*

Sheet 1 of 12

INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days)	Forecast Start	Forecast Finish	% Cmplt	ETC	FY08					FY09					FY10							
									M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O
<b>Chrzanowski</b>																										
<b>Job: 1302 - PF Design -CHRZANOWSKI</b>																										
X	H	1302-275	Resolve FDR Chits	70*	22FEB08A		90	0.00																		
CHRZANOWSKI etc =00hr ;																										
<b>Job: 1352 - PF Coil Procurement-CHRZANOWSKI</b>																										
<b>PF Coil Fabrication</b>																										
X	H	141-038.1	PF Conductor cancellation cost	105*	21FEB08A	18JUL08	C	93,150.00																		
41etc =75\$K ; CHRZANOWSKI etc =00hr ;																										
<b>Job: 1408 - MC Winding Supplies-CHRZANOWSKI</b>																										
X	D	1408-3	Misc and safety supplies (\$7k/mo.)	276*	23MAY07A	30JUN08	LOE	7,923.96																		
41etc =06\$K ;																										
X	D	1408-6	VPI clean manifold contract	276*	23MAY07A	30JUN08	80	2,484.00																		
41etc =02\$K ;																										
X	D	1408-8	Cutting hardware for flange bolts	276*	23MAY07A	30JUN08	LOE	285.66																		
41etc =00\$K ;																										
X	D	1408-7	Misc tech shop support	276*	23MAY07A	30JUN08	80	10,108.16																		
EMT/TB etc =128hr ;																										
<b>Job: 1451 - Mod Coil Winding-CHRZANOWSKI</b>																										
<b>Station 3-Casting Prep &amp; Winding</b>																										
X	D	P1-170	Instl Chill Plates,Tubing,Bag A6	22*	02JUN08	01JUL08		57,490.16																		
EM//TB etc =728hr ;																										
<b>Station 5-VPI</b>																										
X	D	P1-171V	VPI (Station 5) A6	19	02JUL08	29JUL08		47,514.31																		
EM//TB etc =281hr ; EM2/TB etc =27																										
X	D	P3-171VM	COMPLETE VPI OF 18th MOD COIL	0		29JUL08		0.00																		
EMT/TB etc =16hr ;																										
<b>Station 1 Post VPI</b>																										
X	D	P2-171C	Final Clamps & Warm Test (Station1) B6	16	02JUN08	23JUN08		24,006.88																		
EM//TB etc =272hr ; EMT/TB etc =32																										
X	D	P1-171C	Final Clamps & Warm Test (Station1) A6	16	30JUL08	20AUG08		24,006.88																		
EM//TB etc =272hr ; EMT/TB etc =32																										
<b>LOE Oversight &amp; Supervision</b>																										
X	D	145XSPRV-2	Winding Engineering oversight and supervision	314*	01MAY07A	31JUL08	LOE	24,990.58																		
RAFTOPOULOS etc =141hr ;																										
X	D	145XSPRV-3	Winding Engineering oversight and supervision	356*	01MAY07A	30SEP08	LOE	42,266.43																		
LANGISH etc =275hr ;																										
X	D	145XSPRV-A	Winding Engineering oversight and supervision	185*	01NOV07A	31JUL08	LOE	63,168.64																		
CHRZANOWSKI etc =180hr ; MEIGHAN etc =24																										
<b>Job: 1459 - Mod Coil Fabr.Punch List-CHRZANOWSKI</b>																										
<b>Punchlist Tech shop/RESA</b>																										
X	D	PLTS-C5	Grinding & Drill Holes -C5	85*	01MAY08A	29AUG08	83	3,221.98																		
EM//TB etc =41hr ;																										
X	D	PLTS-A5	Grinding -A5	85*	01MAY08A	29AUG08	0	6,949.36																		
EM//TB etc =88hr ;																										
X	D	PLTS-B5	Grinding -B5	85*	01MAY08A	29AUG08	0	9,476.40																		
EM//TB etc =120hr ;																										
X	D	PLTS-A6	Grinding -A6	85*	01MAY08A	29AUG08	20	3,095.62																		
EM//TB etc =39hr ;																										
X	D	PLTS-B6	Grinding -B6	85*	01MAY08A	29AUG08	0	9,476.40																		
EM//TB etc =120hr ;																										
X	D	PLTS-C6	Grinding & Drill Holes -C6	85*	01MAY08A	29AUG08	23	14,593.66																		
EM//TB etc =185hr ;																										



INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days)	Forecast Start	Forecast Finish	% Cmpit	ETC	FY08					FY09					FY10
									M	J	J	A	S	O	N	D	J	F	M
<b>Dahlgren</b>																			
<b>Job: 1702 - Base Support Struct Design-DAHLGREN</b>																			
X	H	1702-525M	Base Support Structure FDR	0		30MAY08A	100	0.00											
X	H	1702-530	FDR labor cost (accounting lag)	10	02JUN08	13JUN08		11,688.80	■	DAHLGREN	etc =40hr ;	CRUIKSHANK	etc =40h						
<b>Job: 1501 - Coil Structures Design-DAHLGREN</b>																			
X	H	1501-533	Detail CAD Drawings,BOM	270*	01JUN07A	30JUN08	75	21,319.30	■	DAHLGREN	etc =05hr ;	RUSHINSKI	etc =89h						
X	H	1501-533F	Integrated Stress Analysis	186*	01OCT07A	30JUN08	75	27,202.56	■	CRUIKSHANK	etc =89hr ;	DAHLGREN	etc =154hr ;						
X	H	1501-536	Issue dwgs for review	0		30JUN08*		0.00	▼										
X	H	1501-549	Update C.S.Support Attacgmt Design	27*	01MAY08A	09JUN08	75	2,036.70	■	DAHLGREN	etc =05hr ;	RUSHINSKI	etc =10h						
X	H	1501-562	Prepare Specs for Coil Structure & CSS h/w	5	24JUN08	30JUN08		3,542.00	■	DAHLGREN	etc =20hr ;								
X	H	1501-537	FDR Prep	5	24JUN08	30JUN08		12,370.68	■	DAHLGREN	etc =38hr ;	RUSHINSKI	etc =49h						
X	H	1501-541	Coil Support Structures - FDR	0		30JUN08		0.00	▼										
<b>Dudek</b>																			
<b>Job: 1431 - Mod. Coil Interface Hardware-DUDEK</b>																			
<b>Shims-Outboard</b>																			
X	D	1431-100	Complete PE007965 & 8090 with zenex	20	02JUN08	27JUN08		84,331.80	■	41etc =68\$K ;									
<b>Shims-Inboard</b>																			
X	D	1431-110	Complete PE007677 with white engr	20	02JUN08	27JUN08		12,705.66	■	41etc =10\$K ;									
<b>Ellis</b>																			
<b>Job: 8205 - Dimensional Control Coordin-ELLIS</b>																			
<b>Station 3-Modular Coil to VVSA Assembly</b>																			
X	H	METFY08R	Support FPA Station 2	170*	01FEB08A	30SEP08	LOE	14,889.60	■	ELLIS	etc =45hr ;	SMITH	etc =45h						
X	H	METDCP-3	Dimensional control plans for station 3	92*	01FEB08A	10JUN08	67	4,675.44	■	ELLIS	etc =26hr ;								
X	H	STAT3 PREP	Station 3 preparations	20	02JUN08	27JUN08		14,168.00	■	ELLIS	etc =80hr ;								
<b>Goranson</b>																			
<b>Job: 1601 - Coil Services Design-GORANSON</b>																			
<b>161 - LN2 Distribution</b>																			
X	H	191-002	Coil Serv-LN2 manifolds&piping-PDR prep etc	3*	03JUN08	05JUN08		14,496.00	■	GORANSON	etc =96hr ;								
X	H	162-217	PDR	0		05JUN08		0.00	▼										
<b>Heitzenroder</b>																			
<b>Job: 8202 - Engr Mgmt &amp; Sys Eng Sprt-HEITZENROED</b>																			
X	H	8205DC	document control & admin support	291*	01FEB08A	31MAR09	LOE	23,630.52	■	SUCH	etc =142hr ;	TYRELL							

INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days)	Forecast Start	Forecast Finish	% Cmpmt	ETC	FY08					FY09					FY10												
									M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O					
X	H	8205FY08.2	Engr mgt & systems engr FY08	170*	01FEB08A	30SEP08	LOE	181,477.20						HEITZENROED etc =445hr ; REIERSEN etc =89hr ; VONHALLE etc =89hr ;	SIMMONS etc =00 DUDEK etc =474																
X	H	8205FY09	Engr mgt & systems engr FY09	121*	01OCT08*	31MAR09	LOE	157,899.44							HEITZENROED etc =315hr ; REIERSEN etc =126hr ; VONHALLE etc =126hr ;	SIMMONS DUDEK															
<b>Job: 8221 -Documentation Closeout-HEITZENROEDER</b>																															
<b>Closeout Documentation</b>																															
X	H	8221-100	Technical data collection	87	01JUL08*	31OCT08		526,139.34							SIMMONS etc =160hr ; BROOKS etc =120hr ; CHRZANOWSKI etc =168hr ; DAHLGREN etc =32hr ; DUDEK etc =32hr ; GORANSON etc =88hr ; Philet=160;Kalish etc=56; labik etc=40; langish etc=24;morris etc=40; nelson etc=160 perry etc =16; raftopoulos etc=176;raki etc=16 reiersen etc=160; rushinski etc=40; sichta etc =160; smith etc= 14; strykowsky etc=160; upcavage etc=40; viola etc= 160; williamson etc=160	BLANCHARD etc =32 BROWN etc =40 COLE etc =40 DODSON etc =16h ELLIS etc =160 HARRIS etc =00h															
X	H	8221-251	Tech presentation/paper collection	84	02JUN08	29SEP08		9,902.00						HAMPTON etc =100hr ;	TYRELL etc =10																
X	H	8221-301	Guidance to collect data	84	02JUN08	29SEP08		53,130.00						SIMMONS etc =300hr ;																	
X	H	8221-305	Organizing and posting data	120	30SEP08	27MAR09		56,203.18							SIMMONS etc =300hr ;																
X	H	8221-401	Finalizing and archiving key analyses/reports	84	02JUN08	29SEP08		137,504.00						FREUDENBERG etc =160hr ; FAN etc =160hr ; ZHANG etc =160hr ;	DAHLGREN etc =16 AVASARALA etc =16																
X	H	8221-501	dell server, software, setup (non project cost)	84	02JUN08	29SEP08		0.00						CARROL etc =200hr ;	41etc =18\$k ;																
X	H	8221-555	Comp. div support of web (non project cost)	84	02JUN08	29SEP08		0.00						CARROL etc =160hr ;																	
X	H	8221-575	Archiving doc & files in ops center	203	02JUN08	26MAR09		18,009.74							SUCH etc =200hr ;																
X	H	8221-700	As-built Drawing Updates	122*	01JUL08*	23DEC08		232,562.06							EA/SB Designers etc =1995hr ;																
<b>Prepare Closeout report</b>																															
X	H	8221-601	Lessons learned report	0		31MAR09		0.00																							
X	H	8221-605	Closeout report-Adjustments to obligations/costs	0		31MAR09		0.00																							
X	H	8221-609	Closeout report-Baseline change control log	0		31MAR09		0.00																							
X	H	8221-613	Closeout report-Closeout approvals	0		31MAR09		0.00																							
X	H	8221-617	Closeout report-Contract closeout status	0		31MAR09		0.00																							
X	H	8221-621	Closeout report-D&D planning	0		31MAR09		0.00																							
X	H	8221-625	Closeout report-Final cost report, incl claims	0		31MAR09		0.00																							
X	H	8221-629	Closeout report-Photographic documentation	0		31MAR09		0.00																							
X	H	8221-633	Closeout report-Tech, cope,cost,schedule accompl	0		31MAR09		0.00																							
X	H	8221-900	CLOSEOUT BCP	0		31MAR09*		0.00																							
<b>Kalish</b>																															
<b>Job: 1361 - TF Fabrication-KALISH</b>																															
<b>TF Title III and Fabrication Oversight</b>																															
X	H	131-033C	Title III engr,inspection, support	184*	02JAN08A	18SEP08	LOE	37,543.84						KALISH etc =71hr ; 41etc =00\$k ; MEIGHAN etc =173hr ;	35etc =02\$k ; EM/TB etc =00hr ;																



INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days)	Forecast Start	Forecast Finish	% Cmpit	ETC	FY08												FY09												FY10
									M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O							
<b>TF Fabrication Contract</b>																																	
X	H	1361C-114	Fab, Test & Deliver Coil #14	21*	27MAY08A	24JUN08	61	18,550.00	49etc=19 ;																								
X	H	1361C-115	Fab, Test & Deliver Coil #15	1	17JUL08*	17JUL08		47,220.00	49etc=47 ;																								
X	H	1361C-116	Fab, Test & Deliver Coil #16	1	08AUG08*	08AUG08		47,220.00	49etc=47 ;																								
X	H	1361C-117	Fab, Test & Deliver Coil #17	1	02SEP08*	02SEP08		47,220.00	49etc=47 ;																								
X	H	1361C-118	Fab, Test & Deliver Coil #18	1	24SEP08*	24SEP08		47,220.00	49etc=47 ;																								
X	H	1351-195X	ALL TF COILS DELIVERED	0		24SEP08		0.00	▼																								
<b>Job: 1354 - Trim Coil Design &amp; Procurement-KALISH</b>																																	
<b>Trim Coil **Updated estimate**</b>																																	
X	H	TRIM-170	Complete Trim Coil Detailed Drawings	69*	25MAR08A	30JUN08	80	7,658.04	KALISH etc=14hr ; RUSHINSKI etc=23h CRUIKSHANK etc=23hr ;																								
X	H	TRIM-200	Assy drawings & parts list	64*	01APR08A	30JUN08	90	2,019.00	KALISH etc=04hr ; RUSHINSKI etc=06h CRUIKSHANK etc=06hr ;																								
<b>Perry</b>																																	
<b>Job: 8220 - Equip Save &amp; Facility Restora-PERRY</b>																																	
<b>Safe and store NCSX hardware assets</b>																																	
X	D	8220-201	Coordination and oversight	143	02JUN08	23DEC08		38,567.45	PERRY etc=245hr ;																								
X	D	8220-205	NCTC floor penetrations & PLT water htr removal	30	01JUL08*	12AUG08		56,248.54	41etc=21\$sk ; EM//TB etc=382hr ;																								
X	D	8220-209	Secure platform parts from CAS Bldg to NCTC	10	13AUG08	26AUG08		4,163.16	41etc=00\$sk ; EM//TB etc=48hr ;																								
X	D	8220-215	Secure TF Coils from Dsite MG to NCTC	10	11SEP08	24SEP08		3,000.86	EM//TB etc=38hr ;																								
X	D	8220-219	Electr trays & hw from D-site yard to dsite pad	10	01JUL08*	15JUL08		6,194.13	41etc=01\$sk ; EM//TB etc=69hr ;																								
X	D	8220-223	Items f/TFTR bsmnt (incl spare MC cond) to NCTCB	10	01AUG08*	14AUG08		13,831.24	41etc=00\$sk ; EM//TB etc=172hr ;																								
X	D	8220-227	Portable AC units to Csite crib	5	27AUG08	03SEP08		631.76	EM//TB etc=08hr ;																								
X	D	8220-231	Drawing closeouts and field follow-up	58	01OCT08*	23DEC08		27,614.00	LANGELLA etc=200hr ;																								
X	D	8220-235	Large and Small shield block to Dsite pad	10	02SEP08*	15SEP08		2,527.04	EM//TB etc=32hr ;																								
X	D	8220-239	Machine mock-up to NCTC	5	13AUG08	19AUG08		631.76	EM//TB etc=08hr ;																								
X	D	8220-243	Welding machines to RESA	5	01OCT08*	07OCT08		668.56	EM//TB etc=08hr ;																								
X	D	8220-247	Tools to Csite crib	10	01OCT08*	14OCT08		2,674.24	EM//TB etc=32hr ;																								
X	D	8220-251	Measuring Equipment to S-109	5	01OCT08*	07OCT08		1,337.12	EM//TB etc=16hr ;																								
X	D	8220-255	Inventory parts,material, tools to new location	20	01OCT08*	28OCT08		6,685.60	EM//TB etc=80hr ;																								
X	D	8220-409	Crates,cabinets,parts shelves f/TFTRTC to NCTCB	10	01OCT08*	14OCT08		10,362.68	EM//TB etc=124hr ;																								
X	D	R1810-3109	Remove coil winding stations & enclosures	20	02JUN08*	27JUN08		72,942.00	41etc=03\$sk ; EM//TB etc=480hr ;																								
X	D	8220-415	Coil winding station to NCTC	10	13AUG08	26AUG08		5,054.08	EM//TB etc=64hr ;																								
X	D	8220-419	MC bolts (incl crate) to NCTCB	5	09SEP08	15SEP08		2,076.20	41etc=00\$sk ; EM//TB etc=20hr ;																								
X	D	8220-423	VVSA's (incl port extension crates) to NCTC	10	13AUG08	26AUG08		7,808.00	41etc=01\$sk ; EM//TB etc=80hr ;																								
X	D	8220-427	Assemble 4 remaining MC 3 packs	25	04AUG08	08SEP08		15,162.24	EM//TB etc=192hr ;																								
X	D	8220-431	Transport MC 3 packs (6) to NCTC	10	09SEP08	22SEP08		5,302.48	EM//TB etc=64hr ; 41etc=00\$sk ;																								
X	D	8220-501	Autoclave- Safe all AC power	5	30JUL08	05AUG08		3,762.80	LANGELLA etc=24hr ; EM//TB etc=08h																								
X	D	8220-505	Autoclave-Removal and store Dsite pad & NCTCB	58	01OCT08*	23DEC08		154,843.44	LANGELLA etc=400hr ; EM//TB etc=1,																								
X	D	8220-605	VV Spool piece crates to NCTCB	2	01JUL08*	02JUL08		473.82	EM//TB etc= 6																								
X	D	8220-609	Yellow wedge stands to NCTC	2	01OCT08*	02OCT08		334.28	EM//TB etc= 4																								
X	D	8220-613	Wedge cover plates to NCTC	2	01OCT08*	02OCT08		334.28	EM//TB etc= 4																								
X	D	8220-617	5 ton lift beam to RESA	2	01OCT08*	02OCT08		334.28	EM//TB etc= 4																								
X	D	8220-621	14 ton lift beam to RESA	2	01OCT08*	02OCT08		167.14	EM//TB etc= 2																								
X	D	8220-625	Remove coil winding rooms & dispose	25	27AUG08	01OCT08		69,377.38	EM//TB etc= 480 Langella etc= 241																								
X	D	8220-633	Equipment in MU machine shop-Electrical to RESA	20	02SEP08*	29SEP08		11,536.00	EM//TB etc= 80Langella etc= 40																								
X	D	8220-641	Equipment in MU machine shop-Mechanical to RESA	10	02SEP08*	15SEP08		12,635.20	EM//TB etc= 160																								
X	D	8220-645	Cryo pump skid- Electrical to NCTCB	15	02JUL08*	23JUL08		13,815.44	EM//TB etc= 56Langella etc= 72																								





INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days)	Forecast Start	Forecast Finish	% Cmpit	ETC	FY08														FY09					FY10	
									M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O			
X	D	2-1-7.29	Torque50% of final value.	1	25JUN08	25JUN08		947.64																					
X	D	2-1-7.30	Measure position of all monuments	1	26JUN08	26JUN08		3,351.46																					
X	D	2-1-7.301	Fuji paper, & examine load sharing. back office	2	27JUN08	30JUN08		8,259.17																					
X	D	2-1-7.302	Install new shims & Fuji paper. Lower & reposit	3	01JUL08	03JUL08		5,685.84																					
X	D	2-1-7.303	Install shims without Fuji paper, studs & torqu	2	07JUL08	08JUL08		3,790.56																					
X	D	2-1-7.31	Adjust shims locally. Re-torque all studs50%.	2	09JUL08	10JUL08		3,790.56																					
X	D	2-1-7.32	Install bushing. Replace nut & tighten back50%	3	11JUL08	15JUL08		5,685.84																					
X	D	2-1-7.33	After super bolt tightening, measure position	2	16JUL08	17JUL08		3,351.46																					
X	D	2-1-7.34	Tighten all boltsir final torque.	1	17JUL08	17JUL08		1,895.28																					
X	D	2-1-7.35	After tightening hardware, meas position of monu	1	18JUL08	18JUL08		3,351.46																					
X	D	2-1-7.36	Weld B / C nose region solenoid side	3	21JUL08	23JUL08		5,685.84																					
X	D	2-1-7.37	Measure positions of all monuments	1	24JUL08	24JUL08		2,234.30																					
X	D	2-1-7.38	Back office of above results & INSTALL wing supp	2	25JUL08	28JUL08		4,468.61																					
X	D	2-1-7.39	Fill all lose bushings with Stycast 2850FT	2	29JUL08	30JUL08		3,790.56																					
<b>Stycast shim bags &amp; final measurements</b>																													
X	D	2-1-8.01	Fill all wing bladders & cure	2	31JUL08	01AUG08		3,790.56																					
X	D	2-1-11.01	Measure tooling balls on all coils.	2	04AUG08	05AUG08		4,468.61																					
X	D	2-1-11.02	Install or identify three primary fiducials	2	06AUG08	07AUG08		4,468.61																					
X	D	2-1-11.03	Scan "B" flange Type-C coil & interfacing base	3	08AUG08	12AUG08		6,702.91																					
X	D	2-1-11.04	Measure bolt length on all tension fasteners	1	13AUG08	13AUG08		1,895.28																					
X	D	2-1-11.05	Perform Electrical Megger test on each coil	2	14AUG08	15AUG08		3,790.56																					
X	D	2-1-11.06	Mark part for identification	0	18AUG08	15AUG08		0.00																					
X	D	2-1-11.07	Install lift support beams	2	18AUG08	19AUG08		7,581.12																					
X	D	2-1-11.08	Remove from stand & measure weight of completed	1	20AUG08	20AUG08		3,790.56																					
X	D	2-1-11.09	Move to holding area.	2	21AUG08	22AUG08		7,581.12																					
X	D	S21-11.07M	Complete 1st MCHP Assy (Sta 2)	0		22AUG08		0.00																					
X	D	2-1-11.10	Lift upper wedge & reinstall & grout at Assembly	10	25AUG08	08SEP08		18,952.80																					
<b>Station 2 MC subassy A2B2C2</b>																													
<b>A-B MC Assembly</b>																													
X	D	2-2-6.26	Torque50% of final value.	1	02JUN08	02JUN08		789.70																					
X	D	2-2-6.27	Measure position of all monuments	1	03JUN08	03JUN08		2,792.88																					
X	D	2-2-6.28	Adjust shims locally. Re-torque all studs50%.	1	04JUN08	04JUN08		10,323.96																					
X	D	2-2-6.29	Install bushing. Replace nut & tighten back 50%	1	05JUN08	05JUN08		4,738.20																					
X	D	2-2-6.30	After super bolt tightening, measure position	1	06JUN08	06JUN08		2,792.88																					
X	D	2-2-6.31	Tighten all boltsir final torque.	1	09JUN08	09JUN08		1,579.40																					
X	D	2-2-6.32	After tightening hardware, measure position	1	10JUN08	10JUN08		2,792.88																					
X	D	2-2-6.33	Weld A / B nose region solenoid side	1	11JUN08	11JUN08		10,323.96																					
X	D	2-2-6.34	Measure positions of all monuments	1	12JUN08	12JUN08		1,861.92																					
X	D	2-2-6.35	Review with Back Office. INSTALL wing supports	1	13JUN08	13JUN08		6,882.64																					
X	D	2-2-6.36	Identify, a set of monuments moved	0	16JUN08	13JUN08		0.00																					

INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days)	Forecast Start	Forecast Finish	% Cmplt	ETC	FY08														FY09														FY10
									M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O											
									EM//TB etc =40hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-6.37	Fill all loose bushings with Stycast 2850FT	1	16JUN08	16JUN08		3,158.80	EM//TB etc =40hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-6.38	Scan "B" flange (datum "E") of "B" coil,	1	17JUN08	17JUN08		1,861.92	EM//TB etc =30hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-6.39	define all B/C flange shim thickness.	1	18JUN08	18JUN08		2,369.10	EM//TB etc =40hr ;														EM//TB etc =00hr ; ZMET etc =16														
AB-C MC Assembly									EM//TB etc =120hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.01	lift (A-B) coil, along with fixture, onto anot	1	19JUN08	19JUN08		9,476.40	EM//TB etc =00hr ; ZMET etc =16														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.02	Select a subset of monuments for initial alignm	1	20JUN08	20JUN08		1,861.92	EM//TB etc =00hr ; ZMET etc =16														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.03	Align set of monuments selected in 7.02.	1	23JUN08	23JUN08		1,861.92	EM//TB etc =20hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.04	Establish a set of global monuments	1	24JUN08	24JUN08		1,861.92	EM//TB etc =00hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.05	Mark nose shim locations & puck locations.	1	25JUN08	25JUN08		1,579.40	EM//TB etc =00hr ;														EM//TB etc =20hr ;														
X	D	2-2-7.06	Place initial set shims (4-8) on Type-B	0	26JUN08	25JUN08		0.00	EM//TB etc =40hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.08	Lower mating "C" coil into position.	1	01JUL08	01JUL08		3,158.80	EM//TB etc =20hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.081	Perform alignment "C" coil tooling balls	1	02JUL08	02JUL08		1,861.92	EM//TB etc =10hr ;														EM//TB etc =00hr ; ZMET etc =24														
X	D	2-2-7.09	Install jack screws & dial indicators	1	03JUL08	03JUL08		1,579.40	EM//TB etc =20hr ;														EM//TB etc =60hr ;														
X	D	2-2-7.10	Position coil within ±.002"	1	07JUL08	07JUL08		1,579.40	EM//TB etc =40hr ;														EM//TB etc =10hr ;														
X	D	2-2-7.11	Install shims studs, & "wiggler"	1	08JUL08	08JUL08		2,369.10	EM//TB etc =00hr ; ZMET etc =24														EM//TB etc =20hr ;														
X	D	2-2-7.12	Torque50% of final value.	1	09JUL08	09JUL08		789.70	EM//TB etc =30hr ;														EM//TB etc =10hr ;														
X	D	2-2-7.13	Measure position of all monuments	1	10JUL08	10JUL08		2,792.88	EM//TB etc =00hr ; ZMET etc =24														EM//TB etc =20hr ;														
X	D	2-2-7.14	Measure shim puck height	1	11JUL08	11JUL08		1,579.40	EM//TB etc =60hr ;														EM//TB etc =40hr ;														
X	D	2-2-7.15	remove puck locating rings & install all nose s	1	14JUL08	14JUL08		4,738.20	EM//TB etc =00hr ; ZMET etc =48														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.16	"Lightly" tack weld nose flex shims	1	15JUL08	15JUL08		789.70	EM//TB etc =00hr ; ZMET etc =32														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.17	remove "C" coil & place it on a separate fixtur	1	16JUL08	16JUL08		3,158.80	EM//TB etc =40hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.18	Recheck part alignment & weld all Type-B flex s	1	17JUL08	17JUL08		5,585.76	EM//TB etc =00hr ; ZMET etc =32														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.19	After welding "B" coil nose shims recheck align	1	18JUL08	18JUL08		1,861.92	EM//TB etc =00hr ;														EM//TB etc =00hr ; ZMET etc =32														
X	D	2-2-7.20	Back office assessment of part after weld	1	21JUL08	21JUL08		3,723.84	EM//TB etc =40hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.21	Measure "C" fiducials	1	21JUL08	21JUL08		1,861.92	EM//TB etc =00hr ; ZMET etc =32														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.22	Weld all Type-C (A-flange) flex shims plasma sid	1	22JUL08	22JUL08		3,158.80	EM//TB etc =00hr ; ZMET etc =16														EM//TB etc =00hr ; ZMET etc =32														
X	D	2-2-7.23	After welding determine metrology acceptance	1	23JUL08	23JUL08		1,861.92	EM//TB etc =00hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.24	Back office assessment	1	24JUL08	24JUL08		3,723.84	EM//TB etc =40hr ;														EM//TB etc =00hr ; ZMET etc =32														
X	D	2-2-7.25	Remove shims for alignment mating coil	0	25JUL08	24JUL08		0.00	EM//TB etc =20hr ;														EM//TB etc =00hr ;														
X	D	2-2-7.07	Place unfilled shim bags in wing areas	1	25JUL08	25JUL08		1,579.40	EM//TB etc =40hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.26	Lower mating "C" coil into position.	1	28JUL08	28JUL08		3,158.80	EM//TB etc =20hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.261	alignment "C" coil tooling balls	1	29JUL08	29JUL08		1,861.92	EM//TB etc =30hr ;														EM//TB etc =20hr ;														
X	D	2-2-7.27	position coil accurately in x, y, & z directio	1	30JUL08	30JUL08		1,579.40	EM//TB etc =10hr ;														EM//TB etc =00hr ; ZMET etc =24														
X	D	2-2-7.28	Install shims;studs,, & "wiggler"	1	31JUL08	31JUL08		2,369.10	EM//TB etc =40hr ;														EM//TB etc =00hr ; ZMET etc =16														
X	D	2-2-7.29	Torque50% of final value.	1	01AUG08	01AUG08		789.70	EM//TB etc =24 ;														EM//TB etc =00hr ; ZMET etc =24														
X	D	2-2-7.30	Measure position of all monuments	1	04AUG08	04AUG08		2,792.88	EM//TB etc =40hr ;														EM//TB etc =00hr ; ZMET etc =24														
X	D	2-2-7.31	Adjust shims locally. Re-torque all studs50%.	1	05AUG08	05AUG08		3,158.80	EM//TB etc =60hr ;														EM//TB etc =00hr ; ZMET etc =24														
X	D	2-2-7.32	Install bushing. Replace nut & tighten back50%	1	06AUG08	06AUG08		4,738.20	EM//TB etc =20hr ;														EM//TB etc =00hr ; ZMET etc =24														
X	D	2-2-7.33	After super bolt tightening, measure position	1	07AUG08	07AUG08		2,792.88	EM//TB etc =40hr ;														EM//TB etc =00hr ; ZMET etc =24														
X	D	2-2-7.34	Tighten all bolts to final torque.	1	08AUG08	08AUG08		1,579.40	EM//TB etc =20hr ;														EM//TB etc =00hr ; ZMET etc =24														



INCLUDED IN CLOSEOUT PLAN	RLM	Activity ID	Activity Description	Duration (work days)	Forecast Start	Forecast Finish	% Cmplt	ETC	FY08													FY09													FY10			
									M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	M	J	J	A	S	O	M	J	J	A	S	O
<b>Trial fit MCHP over VV</b>																																						
X	D	3-1-8.01	Install any bumper protection components on the	1	11SEP08	11SEP08		947.64																														
X	D	3-1-8.03	Install MCHP lift fixture, disengage leveler	2	12SEP08	15SEP08		3,790.56																														
X	D	3-1-8.05	Move right MCHP over the VV	3	16SEP08	18SEP08		18,074.59																														
X	D	3-1-8.05M	MCHP test fit over VVSA Complete	0		18SEP08		0.00																														
X	D	3-1-6.05	Disengage the right MCHP & position on floor	1	19SEP08	19SEP08		1,895.28																														
<b>Hutch Neilson</b>																																						
<b>Job: 8222 - Manuscripts and Papers - NEILSON</b>																																						
Prepare Closeout report																																						
X	H	8222-900	Manuscripts, journal and papers	121*	01OCT08*	31MAR09		283,748.00																														
<b>Harris</b>																																						
<b>Job: 8102 - NCSX MIE Management ORNL-HARRIS</b>																																						
X	R	810.105XX	Project Management Office ORNL FY08 (LOE)	169*	01FEB08A	29SEP08	LOE	106,399.85																														
X	R	810.105Z	Project Management Office ORNL FY09 (LOE)	121*	01OCT08*	31MAR09	LOE	51,786.52																														

<b>Mothball NCSX Hardware</b>										
Item	Qty	Size	Storage Location	Perry MH	Viola MH (Lift Mgr)	Edwards MH	Langella MH	TB MH	HP MH	M&S \$K
<i>Items from TFTR Test Cell</i>										
Modular Coils	18									
3 pack on wedge	4	8.5' x 9.5'	NCTC		8			32	4	
Assemble MC 3-packs	4				40	80		320		
3 pack on pallet	2	8' x 9.5'	NCTC		4			16	2	
fab pallet for 3 pack	2							16		0.2
Vacuum vessel segments	3	11' x 15'	NCTC		12			72	3	1.2
VV Spool piece crates	3		NCTCB					6	3	
Yellow wedge stands	2		NCTC					4	2	
Wedge cover plates		8' x 9'	NCTC					4	4	
5 ton lift beam	2		RESA					4	2	
14 ton lift beam	1		RESA					2	1	
Port extension crates (in RWSB	6	4' x 10'	NCTCB					8	6	
MC Bolts	2	4' x 4'	NCTCB					4	2	
Fab crate for MC bolts	2							16		0.4
Coil winding Station	1	10' x 16'	NCTC					64	8	
Parts shelves with parts	12	3' x 7'	NCTCB					48	12	
Cabinets	24		NCTCB					48	24	
Crates	10	2' x 4'	NCTCB					20	10	
Crates	4	3' x 4'	NCTCB					8	4	
VV diagnostic parts	1	4' x 4'	NCTCB					2	1	
Fab crate for diag parts	1							16		0.2
Remove Autoclave										
Safe all AC Power to autoclave							24	8		
Electrical removals							400	616	77	
Remove handrails and walkways			NCTCB					96	2	
Blower heater duct			NCTCB					48	2	
Ladder and stairways			NCTCB					16	2	
Remove tanks on platform	3		NCTCB					8	1	
Remove air lines			NCTCB					8	1	
Remove insulation			NCTCB					96	4	
Remove vent systems			NCTCB					80	2	
Remove autoclave pumps			NCTCB					16	2	
Remove pump line to pumps			NCTCB					16	2	
Remove injection platforms	3		NCTCB					96	2	
Remove N2 tanks / stands			NCTCB					16	2	



Move Autoclave to D-site Pad			D-site pad	16			80	16		load on low boy; re-survey; unload with mobile crane
Portable AC units	3		C-site crib				8	3		
Remove coil winding rooms			Dispose			240	480	15		
Drawing closeouts and field follow-up						200				
Small shield block	4		D-site pad				16	4		
Large shield block	4		D-site pad				16	4		
Machine mock-up			NCTC				8	1		
Welding machines	4		RESA				8	4		
Tools			C-site crib				32	16		
Measuring Equipment			M.U. Shop				16	4		
Inventory parts, material and tools as to their new location							80			
<b>Items from Mockup Bldg</b>										
Equipment in machine shop			RESA							
Electrical						40	80			
Mechanical							160			
<b>Items from TFTR Basement</b>										
Shelves	1		NCTCB				4			
Cabinets	8		NCTCB				32			
Pallets	25		NCTCB				100			
Fab two 10' pallets	2	4' x 10'	NCTCB				16		0.2	
Spare coil conductor pallet	5	4' x 4'	NCTCB				20			
Cryo pump skid	1		NCTCB							
Electrical						72	56			
Mechanical							48			
Cryostat	1		Dispose				48			
Interlocked cryo room	1		Leave in place							





## Checklist for NCSX Documentation and Records Archiving

WBS \_\_\_\_ Job: \_\_\_\_\_ Title: \_\_\_\_\_

Individual completing \_\_\_\_\_ Date completed \_\_\_\_\_

Guidance: Review what is on your personal computer vs. what is on the NCSX webpage to identify what is missing or is different.

No	Document/record type	Web current?	What needs to be uploaded? Location of these files?
1.	Project Files <ul style="list-style-type: none"> <li>• Memos including emails</li> <li>• Meeting Notes</li> <li>• Photos – likely will be consolidated into other files</li> </ul>		
2.	Specifications/SOWs <ul style="list-style-type: none"> <li>• Specifications (<i>Completed &amp; Draft</i>)</li> <li>• SOWs (<i>Completed &amp; Draft</i>)</li> </ul>		
3.	Design Reviews/CHITs/Calcs/R&D Reports <ul style="list-style-type: none"> <li>• Design Reviews</li> <li>• Open CHITs</li> <li>• Analysis Reports (<i>Completed &amp; Draft</i>)</li> <li>• R&amp;D Reports (<i>Completed &amp; Draft</i>)</li> </ul>		

## Checklist for NCSX Documentation and Records Archiving

No	Document/record type	Web current?	What needs to be uploaded? Location of these files?
4.	<p>Design Data</p> <ul style="list-style-type: none"> <li>• Design Descriptions</li> <li>• Bills of Material</li> <li>• FEA Models (<i>New</i>)</li> <li>• Metrology (<i>may combine with other info</i>)</li> <li>• Material Properties</li> <li>• Vacuum Properties</li> <li>• Released Drawings (<i>N/A since link made</i>)</li> <li>• Design Studies/Presentations (e.g., interference studies, permeability analyses, etc.)</li> <li>• Models (<i>New – Primarily T Brown Effort</i>)</li> <li>• In-Process Drawings (<i>New – Primarily T Brown Effort</i>)</li> <li>• Technical Data (<i>N/A – will post latest</i>)</li> </ul>		
5.	<p>Fabrication/Assy/Construction Info</p> <ul style="list-style-type: none"> <li>• Manufacturing Plans/Procedures (<i>Complete and Drafts</i>)</li> <li>• Coil Test Results</li> <li>• Facility Layout (<i>N/A – no further work</i>)</li> <li>• Final Assembly (<i>N/A – nothing done</i>)- <i>models elsewhere</i></li> <li>• Prototype Info</li> <li>• Dimensional Control/Metrology – <i>will transfer from P Drive to Web when done</i></li> <li>• MC Mfg/FPA Punch List &amp; MC Status – <i>data base needs to be transferred</i></li> <li>• Ops Center Materials – <i>need inventory list</i></li> </ul>		

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6.	<p>Other Info</p> <ul style="list-style-type: none"> <li>• Risk Register</li> <li>• Project Control Info                             <ul style="list-style-type: none"> <li>○ CPRs</li> <li>○ Cost/Schedule Baselines</li> </ul> </li> <li>• Test Results</li> <li>• Procurement Records – <i>send to Ops Center and/or correspondence</i></li> <li>• Close Out Notes</li> <li>• Audit Reports/Notes</li> <li>• NCRs</li> <li>• Other info?</li> </ul>		
7.	<p>Project Files</p> <ul style="list-style-type: none"> <li>• Memos including emails</li> <li>• Meeting Notes</li> <li>• Photos – likely will be consolidated into other files</li> </ul>		
8.	<p>Specifications/SOWs</p> <ul style="list-style-type: none"> <li>• Specifications (<i>Completed &amp; Draft</i>)</li> <li>• SOWs (<i>Completed &amp; Draft</i>)</li> </ul>		
9.	<p>Design Reviews/CHITs/Calcs/R&amp;D Reports</p> <ul style="list-style-type: none"> <li>• Design Reviews</li> <li>• Open CHITs</li> <li>• Analysis Reports (<i>Completed &amp; Draft</i>)</li> <li>• R&amp;D Reports (<i>Completed &amp; Draft</i>)</li> </ul>		

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11.	<p>Fabrication/Assy/Construction Info</p> <ul style="list-style-type: none"> <li>• Manufacturing Plans/Procedures<sup>1</sup> (<i>Complete and Drafts</i>)</li> <li>• Coil Test Results</li> <li>• Facility Layout (<i>N/A – no further work</i>)</li> <li>• Final Assembly (<i>N/A – nothing done</i>)- <i>models elsewhere</i></li> <li>• Prototype Info</li> <li>• Dimensional Control/Metrology – <i>will transfer from P Drive to Web when done</i></li> <li>• MC Mfg/FPA Punch List &amp; MC Status – <i>data base needs to be transferred</i></li> <li>• Ops Center Materials – <i>need inventory list</i></li> </ul>		

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**NOTES**

<sup>1</sup> Review draft procedures available on local computer, approved procedures which should be available on the web at the proper version, and run copies. If there are run copies issued, indicate where they are currently located, e.g., in FPA station #1, their current status, and the plans for returning them to the Operations Center.

<sup>2</sup> Concern is with deliverables. Deliverables, if in paper format, should be in the Operations Center. If electronic, should be posted on the NCSX web. These deliverables should clearly identify the hardware for which they are associated.



## NCSX Publication Plan

### Conferences

1. 25<sup>th</sup> Symposium on Fusion Technology (SOFT), Rostock, Germany, Sept. 15-19, 2008
2. 18<sup>th</sup> Technology of Fusion Energy (TOFE), San Francisco, Sept. 29- Oct. 2, 2008
3. 22nd IAEA Fusion Energy Conference, Geneva, Switzerland, October 13-18, 2008
4. 18<sup>th</sup> International Toki Conference (ITC-18), Toki, Japan, Dec. 9-12, 2008
5. 23<sup>rd</sup> Symposium on Fusion Engineering (SOFE-23), San Diego, CA, May 31- June 5, 2009.
6. ASME Design Engineering Division, 2009?

### Cost per paper: 1 person-month?

Topic / Title	Venue / Publication	Lead Author
“Progress in NCSX Construction”	SOFT-25	Dudek
“Engineering Accomplishments in the Construction of NCSX”	TOFE-18	Neilson
"Design and Construction Solutions in the Accurate Realization of NCSX Magnetic Fields"	IAEA FEC-22	Heitzenroeder
Dimensional Control in Assembly		Ellis
Modular Coil Fabrication Summary		Chrzanowski
Photogrammetry		Dodson
Physics Design Overview		Neilson / Zarnstorff
Low-Distortion Welded Joints		Viola
Modular Coil Interface Design Basis (Analysis & Test Results)		Freudenberg
Application of High-Performance Insulating Materials (Analysis & Test Results)		Goranson
Compact bolted fasteners with insulation and friction-enhanced shims		Dudek
Strategies for achieving tolerance goals: trim coils, realignment to recover tolerances		Brooks

<b>Topic / Title</b>	<b>Venue / Publication</b>	<b>Lead Author</b>
System Engineering	AICHE Conf., Nov., 2008	Simmons
Configuration & Data Management	ACDM Conf., April, 2009	Simmons