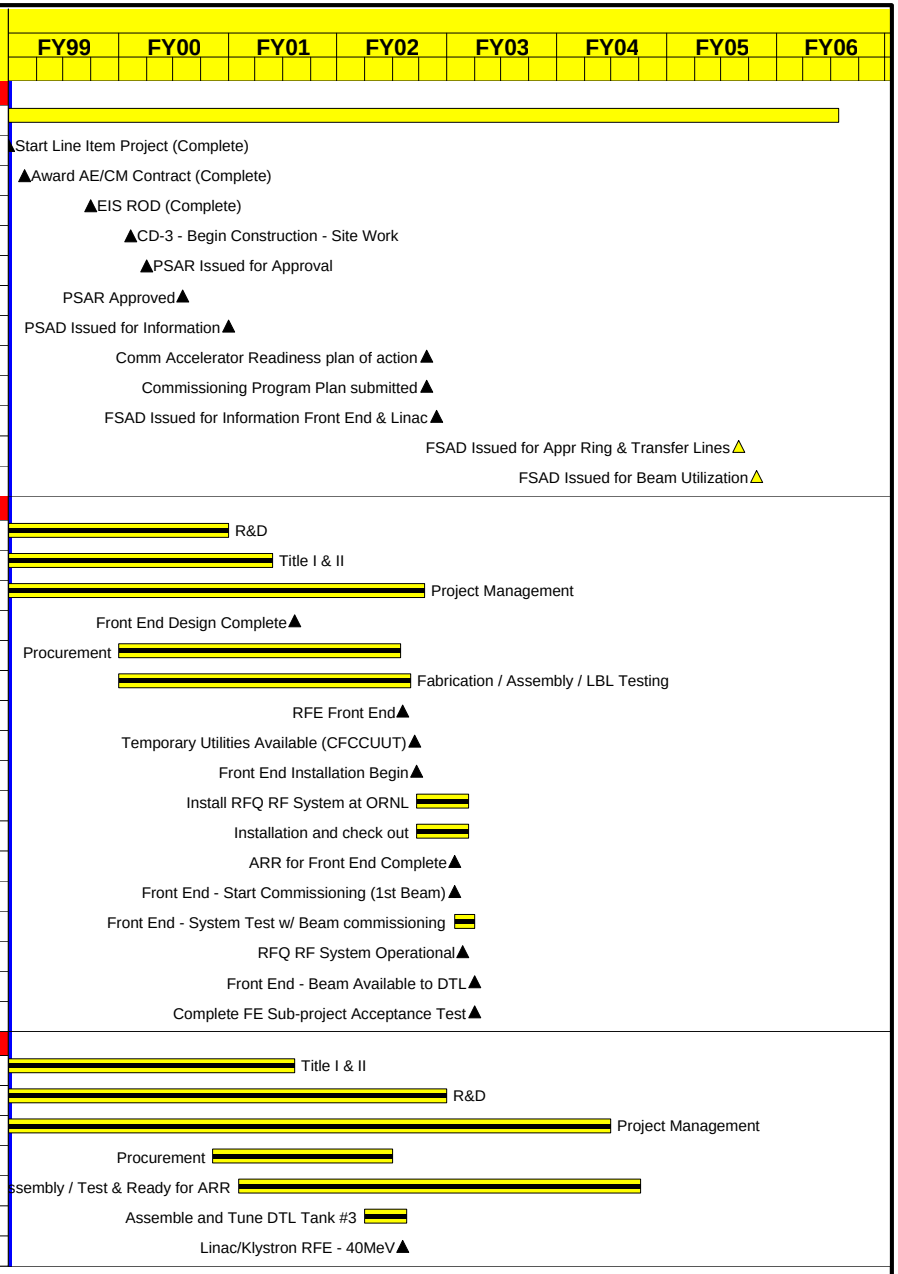
Activity ID	RESP	Activity Description	Early Start	Early Finish	PEP ID	PEP Date
Project Support						
PSPM	PS	Project Support	01OCT98A	28APR06		
PS104	PS	Start Line Item Project (Complete)		01OCT98A	1A-01	31OCT98
PS109	PS	Award AE/CM Contract (Complete)		25NOV98A	1B-01	30NOV98
PS105	PS	EIS ROD (Complete)		30JUN99A	0-3	30JUN99
PS122	PS	CD-3 - Begin Construction - Site Work		12NOV99A	1A-03	30NOV99
PS115	PS	PSAR Issued for Approval		31DEC99A	1B-02	31DEC99
PS120	PS	PSAR Approved		01MAY00A		
PS116	PS	PSAD Issued for Information		29SEP00A	2-01	30SEP00
PS150	PS	Comm Accelerator Readiness plan of action		21JUL02A		
PS155	PS	Commissioning Program Plan submitted		21JUL02A		
PS140	PS	FSAD Issued for Information Front End & Linac		28AUG02A	2-03A	30SEP02
PS175	PS	FSAD Issued for Appr Ring & Transfer Lines		31MAY05*	2-03B	30JUN05
PS121	PS	FSAD Issued for Beam Utilization		29JUL05*	2-04	31AUG05
Front End						
FERD	FE	R&D	01OCT98A	29SEP00A		
FEEN	FE	Title I & II	01OCT98A	01MAR01A		
FEPM	FE	Project Management	01OCT98A	15JUL02A		
FEEN5	FE	Front End Design Complete		10MAY01A	2-05	31MAY01
FEPR	FE	Procurement	04OCT99A	01MAY02A		
FEFB	FE	Fabrication / Assembly / LBL Testing	04OCT99A	31MAY02A		
FERFE	CF	RFE Front End		03MAY02A		
FEIN10	CF	Temporary Utilities Available (CFCCUUT)		17JUN02A		
FEIN05	AS	Front End Installation Begin	24JUN02A		2-06	30SEP02
FETE10	LN	Install RFQ RF System at ORNL	20JUN02A	14DEC02A		
FEIN	AS	Installation and check out	20JUN02A	14DEC02A		
PS160	PS	ARR for Front End Complete		28OCT02A		
FE110	AS	Front End - Start Commissioning (1st Beam)	29OCT02A			
FE115	AS	Front End - System Test w/ Beam commissioning	29OCT02A	30DEC02A		
FETE20	AS	RFQ RF System Operational		18NOV02A		
FE120	AS	Front End - Beam Available to DTL		30DEC02A	1B-06	31MAR03
FE125	AS	Complete FE Sub-project Acceptance Test		30DEC02A		
Linac - DTL						
DTLEN	LN	Title I & II	01OCT98A	08MAY01A		
CCLRD	LN	R&D	01OCT98A	30SEP02A		
LINACPM	LN	Project Management	01OCT98A	31MAR04A		
DTLPR	LN	Procurement	11AUG00A	01APR02A		
DTFB	AS	Fabricate / Assembly / Test & Ready for ARR	07NOV00A	07JUL04A		
DTLRFE10	AS	Assemble and Tune DTL Tank #3	02JAN02A	21MAY02A		
DTLIN15	CF	Linac/Klystron RFE - 40MeV		03MAY02A		



Start Date	01OCT97
Finish Date	30JUN06
Data Date	01OCT98
Run Date	05NOV04 14:36

IPS-16
Progress Bar
Critical Activity

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R521

Sheet 1 of 7

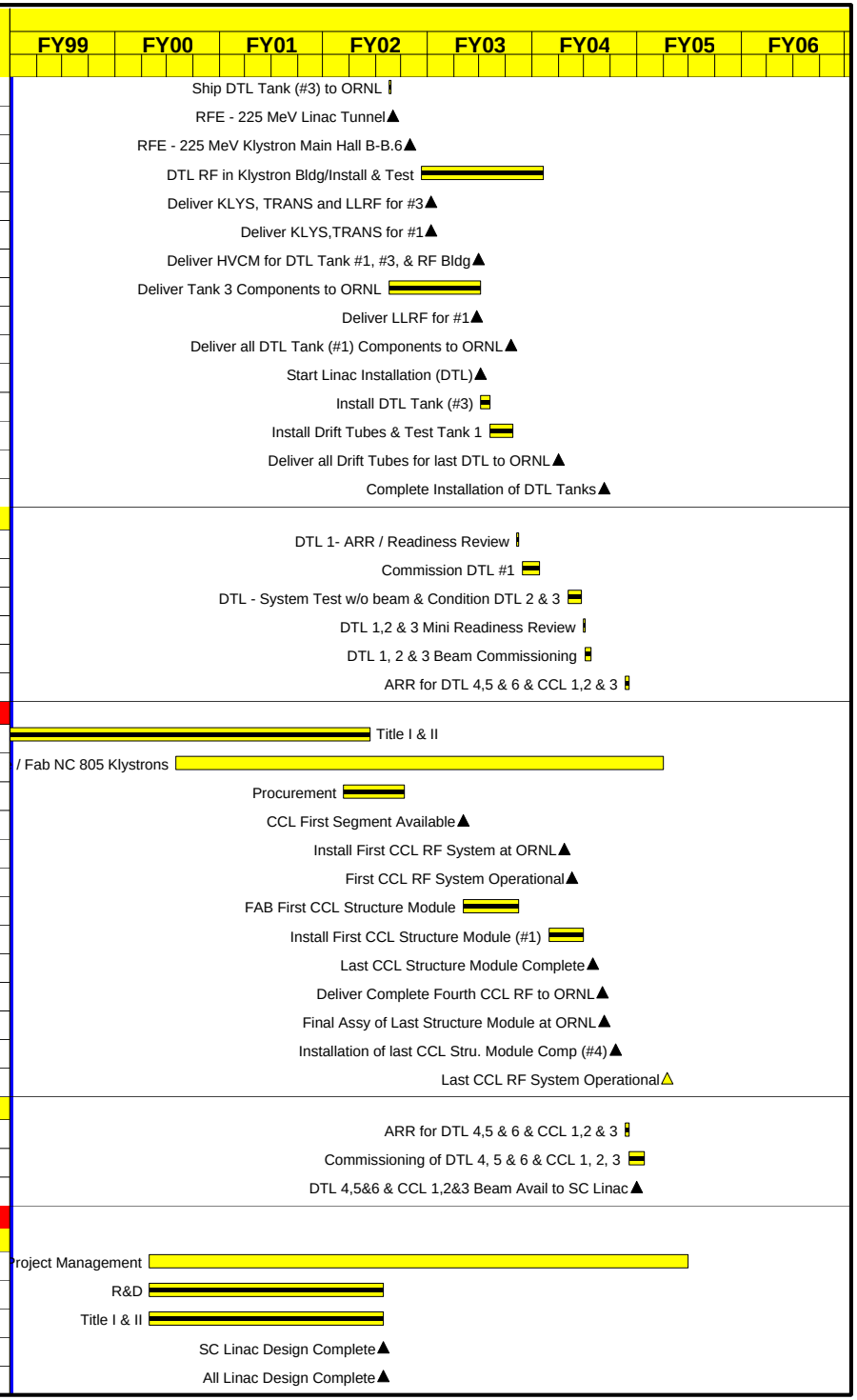
Integrated Project schedule (IPS-17)

28-April-06 Finish

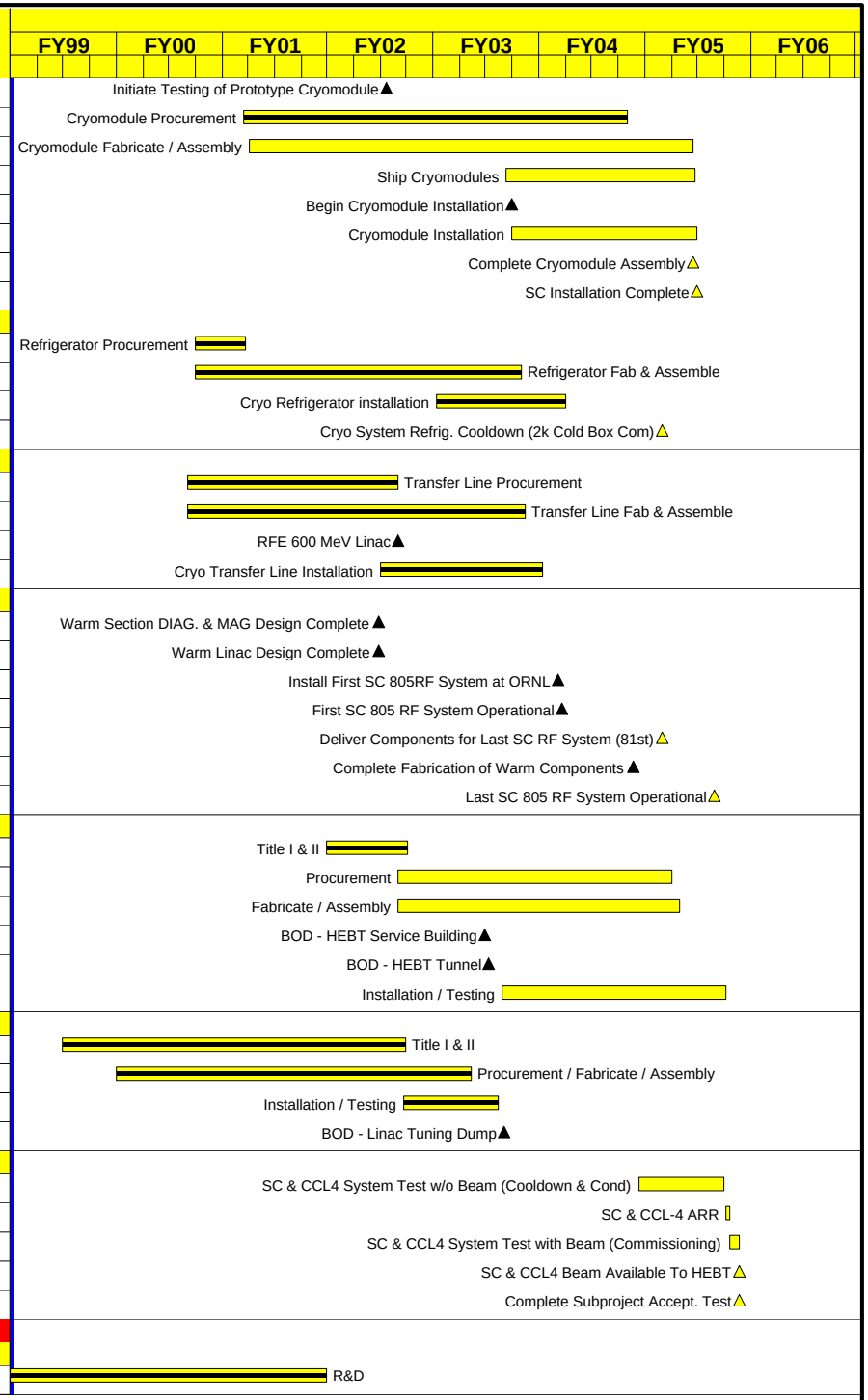
R521
November 2004
Review

SNS
SPALLATION NEUTRON SOURCE

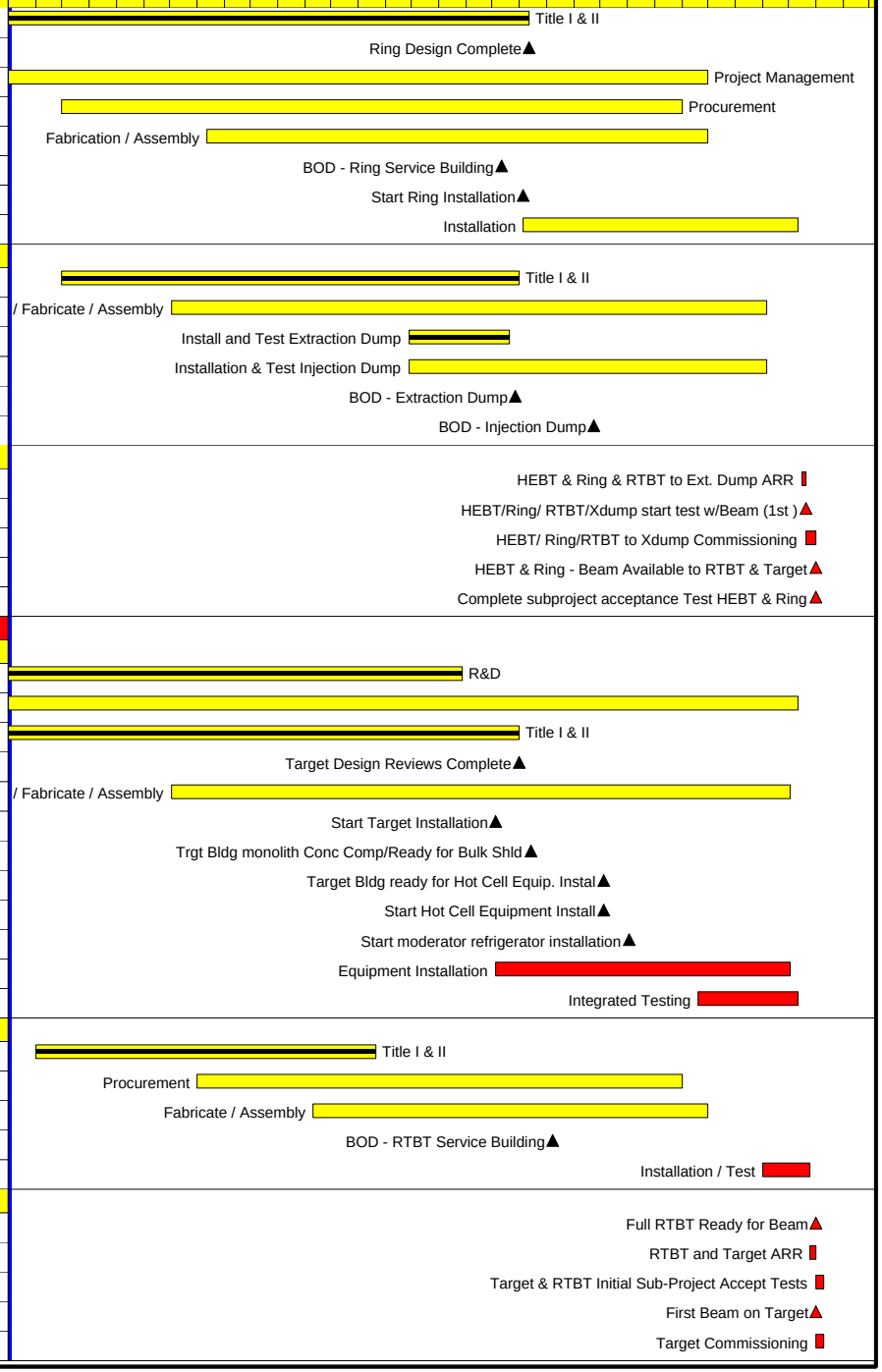
Activity ID	RESP	Activity Description	Early Start	Early Finish	PEP ID	PEP Date
DTFB20	LN	Ship DTL Tank (#3) to ORNL	21MAY02A	23MAY02A		
DTLRFE	CF	RFE - 225 MeV Linac Tunnel	03JUN02A			
DTKRFE	CF	RFE - 225 MeV Klystron Main Hall B-B.6	30JUL02A			
DTLINK36	AS	DTL RF in Klystron Bldg/Install & Test	09SEP02A	07NOV03A		
DTLIN10	LN	Deliver KLYS, TRANS and LLRF for #3		11OCT02A		
DTLINK21	LN	Deliver KLYS,TRANS for #1		11OCT02A		
DTLINK11	LN	Deliver HVCM for DTL Tank #1, #3, & RF Bldg		31MAR03A		
DTLINK51	LN	Deliver Tank 3 Components to ORNL	21MAY02A	03APR03A		
DTLINK41	LN	Deliver LLRF for #1		21MAR03A		
DTL055	LN	Deliver all DTL Tank (#1) Components to ORNL		18JUL03A		
DTL050	AS	Start Linac Installation (DTL)	04APR03A		2-09	30SEP02
DTL045	AS	Install DTL Tank (#3)	04APR03A	09MAY03A		
DTLINK31	AS	Install Drift Tubes & Test Tank 1	09MAY03A	24JUL03A		
DTFB30	LN	Deliver all Drift Tubes for last DTL to ORNL		31DEC03A		
DTLIN	AS	Complete Installation of DTL Tanks		07JUN04A		
DTL Commissioning						
DTL090	AS	DTL 1- ARR / Readiness Review	12AUG03A	14AUG03A		
DTL100	AS	Commission DTL #1	26AUG03A	30OCT03A		
DTL080	AS	DTL - System Test w/o beam & Condition DTL 2 & 3	02FEB04A	22MAR04A		
DTL075	AS	DTL 1,2 & 3 Mini Readiness Review	29MAR04A	07APR04A		
DTL065	AS	DTL 1, 2 & 3 Beam Commissioning	08APR04A	23APR04A		
DTL110	AS	ARR for DTL 4,5 & 6 & CCL 1,2 & 3	23AUG04A	03SEP04A		
Linac - CCL						
CCLEN	LN	Title I & II	01OCT98A	15MAR02A		
CCLFB10	LN	Procure / Fab NC 805 Klystrons	01MAY00A	31DEC04		
CCLPR	LN	Procurement	11DEC01A	12JUL02A		
CCLFB130	LN	CCL First Segment Available		05FEB03A		
CCLFB90	LN	Install First CCL RF System at ORNL		23JAN04A		
CCLFB100	AS	First CCL RF System Operational		19FEB04A		
CCLFB60	LN	FAB First CCL Structure Module	05FEB03A	15AUG03A		
CCLFB110	AS	Install First CCL Structure Module (#1)	01DEC03A	26MAR04A		
CCLFB20	LN	Last CCL Structure Module Complete		04MAY04A		
CCL245	LN	Deliver Complete Fourth CCL RF to ORNL		04JUN04A		
CCLFB80	AS	Final Assy of Last Structure Module at ORNL		09JUN04A		
CCLFB120	AS	Installation of last CCL Stru. Module Comp (#4)		21JUL04A		
CCL275	AS	Last CCL RF System Operational		14JAN05*		
CCL Commissioning						
CCL230	AS	ARR for DTL 4,5 & 6 & CCL 1,2 & 3	23AUG04A	03SEP04A		
CCL240	AS	Commissioning of DTL 4, 5 & 6 & CCL 1, 2, 3	07SEP04A	29OCT04A		
CCL255	AS	DTL 4,5&6 & CCL 1,2&3 Beam Avail to SC Linac		29SEP04A		
Linac - SC						
SC						
SC00	SL	SC Project Management	01FEB00A	31MAR05		
SC01	SL	R&D	01FEB00A	26APR02A		
SC05	SL	Title I & II	01FEB00A	26APR02A		
SC10	SL	SC Linac Design Complete		26APR02A		
SC45	SL	All Linac Design Complete		26APR02A	1B-03	30SEP02



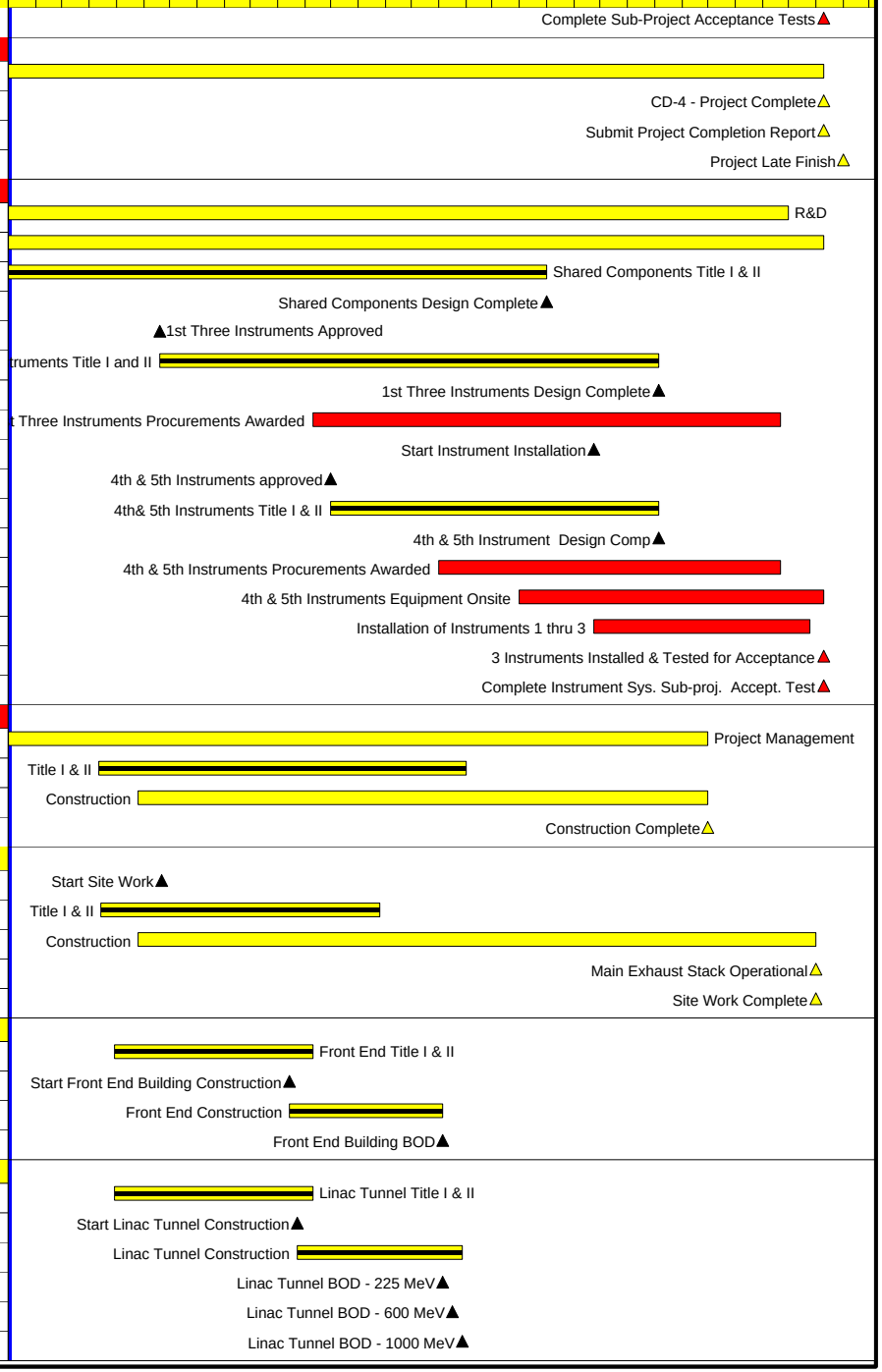
Activity ID	RESP	Activity Description	Early Start	Early Finish	PEP ID	PEP Date
SC21	SL	Initiate Testing of Prototype Cryomodule	22APR02A		2-30	31MAY02
SC15	SL	Cryomodule Procurement	15DEC00A	30JUL04A		
SC20	SL	Cryomodule Fabricate / Assembly	02JAN01A	18MAR05		
CCL351	SL	Ship Cryomodules	09JUN03A	25MAR05		
CCL353	AS	Begin Cryomodule Installation	30JUN03A			
SC23	AS	Cryomodule Installation	30JUN03A	31MAR05		
SC31	SL	Complete Cryomodule Assembly		18MAR05*		
SC30	AS	SC Installation Complete		31MAR05*		
Refrigerator						
SC75	SL	Refrigerator Procurement	30JUN00A	19DEC00A		
SC90	SL	Refrigerator Fab & Assemble	05JUL00A	31JUL03A		
SC25	AS	Cryo Refrigerator installation	11OCT02A	30DEC03A		
SC35	AS	Cryo System Refrig. Cooldown (2k Cold Box Com)		30NOV04*		
Transfer Lines						
SC80	SL	Transfer Line Procurement	06JUN00A	31MAY02A		
SC100	AS	Transfer Line Fab & Assemble	07JUN00A	15AUG03A		
SC110	CF	RFE 600 MeV Linac	03JUN02A			
SC65	AS	Cryo Transfer Line Installation	02APR02A	15OCT03A		
LANL Warm Items						
LAN01	LN	Warm Section DIAG. & MAG Design Complete		28MAR02A		
CCLEN5	AS	Warm Linac Design Complete		28MAR02A		
LAN21	AS	Install First SC 805RF System at ORNL		07DEC03A		
LAN31	AS	First SC 805 RF System Operational		19DEC03A		
LAN41	AS	Deliver Components for Last SC RF System (81st)		30NOV04*		
LAN11	AS	Complete Fabrication of Warm Components		23AUG04A		
LAN51	AS	Last SC 805 RF System Operational		31MAY05*		
LAMS						
LAMSEN	RI	Title I & II	01OCT01A	01JUL02A		
LAMSPR	RI	Procurement	03JUN02A	31DEC04		
LAMSFB	RI	Fabricate / Assembly	03JUN02A	01FEB05		
CCL329	RI	BOD - HEBT Service Building	28MAR03A			
CCL327	RI	BOD - HEBT Tunnel	14APR03A			
LAMSIN	AS	Installation / Testing	30MAY03A	08JUL05		
Linac Dump						
LDEN	TG	Title I & II	01APR99A	30JUN02A		
LDPR	TG	Procurement / Fabricate / Assembly	01OCT99A	12FEB03A		
LDIN	TG	Installation / Testing	20JUN02A	15MAY03A		
CCL330	CF	BOD - Linac Tuning Dump	02JUN03A			
SC Commissioning						
SC310	AS	SC & CCL4 System Test w/o Beam (Cooldown & Cond)	10SEP04A	01JUL05		
SC300	AS	SC & CCL-4 ARR	11JUL05	22JUL05		
SC325	AS	SC & CCL4 System Test with Beam (Commissioning)	25JUL05	23AUG05		
SC330	AS	SC & CCL4 Beam Available To HEBT		23AUG05	1B-09	31AUG05
SC340	AS	Complete Subproject Accept. Test		23AUG05*		
Ring - HEBT to Ring						
HEBT & Ring						
RINGRD	RI	R&D	01OCT98A	28SEP01A		



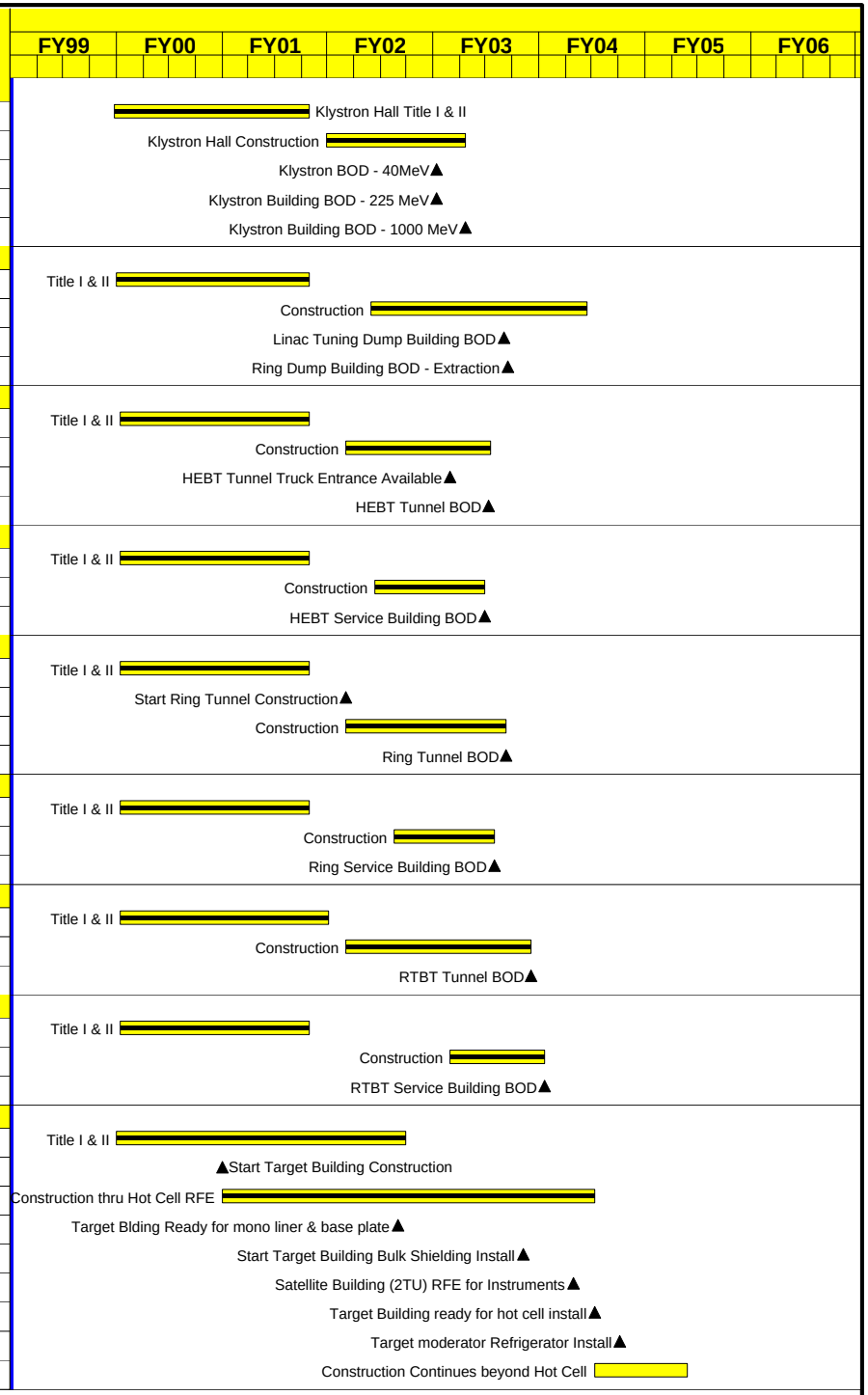
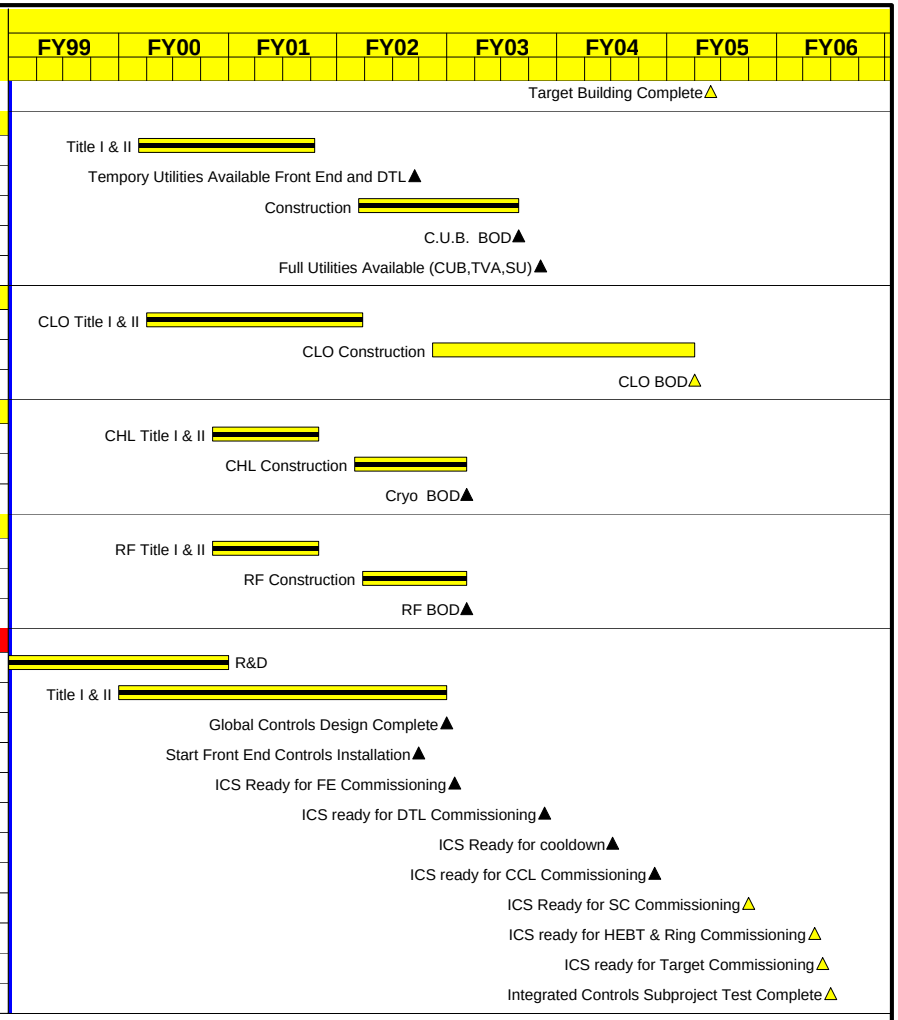
Activity ID	RESP	Activity Description	Early Start	Early Finish	PEP ID	PEP Date
RINGEN	RI	Title I & II	01OCT98A	31JUL03A		
RINGEN5	RI	Ring Design Complete		31JUL03A	2-11	31OCT03
RINGPM	RI	Project Management	01OCT98A	31MAR05		
RINGPR	RI	Procurement	01APR99A	31DEC04		
RINGFB	RI	Fabrication / Assembly	01AUG00A	30MAR05		
HEBT532	CF	BOD - Ring Service Building	02MAY03A			
RINGIN5	AS	Start Ring Installation	15JUL03A		2-12	31AUG03
RINGIN	AS	Installation	15JUL03A	01FEB06		
Injection & Extraction Dumps						
TGIEDEN	TG	Title I & II	01APR99A	30JUN03A		
TGIEDPR	TG	Procurement / Fabricate / Assembly	03APR00A	18OCT05		
EDUMP536	TG	Install and Test Extraction Dump	20JUN02A	30MAY03A		
TGIEDIN	TG	Installation & Test Injection Dump	20JUN02A	18OCT05		
EDUMP526	CF	BOD - Extraction Dump	16JUN03A			
IDUMP508	TG	BOD - Injection Dump	12MAR04A			
Commissioning						
HEBT157	AS	HEBT & Ring & RTBT to Ext. Dump ARR	15FEB06	28FEB06		
HEBT170	AS	HEBT/Ring/ RTBT/Xdump start test w/Beam (1st)		01MAR06		
HEBT290	AS	HEBT/ Ring/RTBT to Xdump Commissioning	01MAR06	31MAR06		
HEBT295	AS	HEBT & Ring - Beam Available to RTBT & Target		31MAR06	1B-10	28FEB06
HEBT305	AS	Complete subproject acceptance Test HEBT & Ring		31MAR06		
Target - RTBT to Target						
Target						
TARGRD	TG	R&D	01OCT98A	15DEC02A		
TARGPM	TG	Project Management	01OCT98A	03FEB06		
TARGEN	TG	Title I & II	01OCT98A	30JUN03A		
TARGEN5	TG	Target Design Reviews Complete		30JUN03A	1B-07	30JUN03
TARGPR	TG	Procurement / Fabricate / Assembly	03APR00A	05JAN06		
TARGIN5	TG	Start Target Installation	11APR03A		2-15	30JUN03
RTBTRFE1	TG	Trgt Bldg monolith Conc Comp/Ready for Bulk Shld		07AUG03A		
RTBTRFE2	TG	Target Bldg ready for Hot Cell Equip. Instal		08APR04A		
RTBT308	TG	Start Hot Cell Equipment Install	12APR04A			
RTBTRFE3	TG	Start moderator refrigerator installation	06JUL04A			
TARGIN	TG	Equipment Installation	11APR03A	05JAN06		
TARGIN10	TG	Integrated Testing	01MAR05*	03FEB06		
RTBT						
RTBTEN	RI	Title I & II	04JAN99A	28FEB02A		
RTBTPR	RI	Procurement	05JUL00A	31DEC04		
RTBTFB	RI	Fabricate / Assembly	31JUL01A	31MAR05		
RTBT302	CF	BOD - RTBT Service Building	22OCT03A			
RTBTIN	AS	Installation / Test	03OCT05*	14MAR06		
Commissioning						
RTBTIN5	AS	Full RTBT Ready for Beam		31MAR06		
RTBT410	AS	RTBT and Target ARR	15MAR06	31MAR06		
RTBT337	TG	Target & RTBT Initial Sub-Project Accept Tests	03APR06	28APR06		
RTBT411	TG	First Beam on Target	03APR06			
RTBT315	TG	Target Commissioning	03APR06	28APR06	1A-04	31MAY06



Activity ID	RESP	Activity Description	Early Start	Early Finish	PEP ID	PEP Date
RTBT342	TG	Complete Sub-Project Acceptance Tests		28APR06		
Pre-Operations						
OPCO1	OP	Pre-Operations/Commissioning	01OCT98A	28APR06		
PS130	ALL	CD-4 - Project Complete		28APR06	0-4	30JUN06
PS170	ALL	Submit Project Completion Report		28APR06	1A-05	30JUN06
PS165	ALL	Project Late Finish		30JUN06*		
Instrument Systems						
EXPERD	IS	R&D	01OCT98A	30DEC05		
EXPEPM	IS	Project Management	01OCT98A	28APR06		
EXPEEN	IS	Shared Components Title I & II	01OCT98A	30SEP03A		
EXPEPM15	IS	Shared Components Design Complete		30SEP03A		
EXPEPM5	IS	1st Three Instruments Approved		24FEB00A		
EXPEEN1	IS	1st Three Instruments Title I and II	25FEB00A	15OCT04A		
EXPEEN2	IS	1st Three Instruments Design Complete		15OCT04A		
EXPEPR	IS	1st Three Instruments Procurements Awarded	01AUG01A	30NOV05		
EXPEIN5	IS	Start Instrument Installation	12MAR04A		2-17	31MAR04
EXPEEN3	IS	4th & 5th Instruments approved	28SEP01A			
EXPEEN4	IS	4th& 5th Instruments Title I & II	01OCT01A	15OCT04A		
EXPEEN5	IS	4th & 5th Instrument Design Comp		15OCT04A	1B-08	31OCT04
EXPEPR1	IS	4th & 5th Instruments Procurements Awarded	02OCT02A	30NOV05		
EXPEFB1	IS	4th & 5th Instruments Equipment Onsite	30JUN03A	28APR06		
EXPEIN	IS	Installation of Instruments 1 thru 3	12MAR04A	14MAR06		
EXPEIN20	IS	3 Instruments Installed & Tested for Acceptance		28APR06		
EXPEIN10	IS	Complete Instrument Sys. Sub-proj. Accept. Test		28APR06	2-18	30JUN06
Conventional Facilities						
CFPM	CF	Project Management	01OCT98A	31MAR05		
CFEN	CF	Title I & II	02AUG99A	31DEC02A		
CFCN	CF	Construction	16DEC99A	31MAR05		
CFCN5	CF	Construction Complete		31MAR05	2-24	30NOV05
Site Prep						
CFSPEN5	CF	Start Site Work	01MAR00A		2-19	31MAR00
CFSPEN	CF	Title I & II	11AUG99A	15MAR02A		
CFSPCN	CF	Construction	16DEC99A	31MAR06		
CFSPEN10	CF	Main Exhaust Stack Operational		31MAR06*		
CFSPCN5	CF	Site Work Complete		31MAR06		
Front End Building						
CFFEEN	CF	Front End Title I & II	28SEP99A	31JUL01A		
CFFEEN5	CF	Start Front End Building Construction	14MAY01A			
CFFECN	CF	Front End Construction	14MAY01A	14OCT02A		
CFFEBOD	CF	Front End Building BOD	14OCT02A		2-20	31DEC02
Linac Building						
CFLNEN	CF	Linac Tunnel Title I & II	28SEP99A	31JUL01A		
CFLNEN5	CF	Start Linac Tunnel Construction	06JUN01A			
CFLNCN	CF	Linac Tunnel Construction	06JUN01A	18DEC02A		
CFLNBOD	CF	Linac Tunnel BOD - 225 MeV		14OCT02A		
CFLNBOD2	CF	Linac Tunnel BOD - 600 MeV		14NOV02A		
CFLNBOD5	CF	Linac Tunnel BOD - 1000 MeV		18DEC02A	1B-04	30APR03



Activity ID	RESP	Activity Description	Early Start	Early Finish	PEP ID	PEP Date
Klystron Building						
CFKLEN	CF	Klystron Hall Title I & II	28SEP99A	31JUL01A		
CFKLCN	CF	Klystron Hall Construction	28SEP01A	17JAN03A		
CFKLBOD10	CF	Klystron BOD - 40MeV		14OCT02A		
CFKLBOD	CF	Klystron Building BOD - 225 MeV		14OCT02A		
CFKLBOD5	CF	Klystron Building BOD - 1000 MeV		17JAN03A		
Dump Buildings						
CFDUEN	CF	Title I & II	05OCT99A	01AUG01A		
CFDUCN	CF	Construction	01MAR02A	12MAR04A		
CFDUBODLN	CF	Linac Tuning Dump Building BOD	02JUN03A			
CFDUBODEX	CF	Ring Dump Building BOD - Extraction	16JUN03A			
HEBT Tunnel						
CFHEBTEN	CF	Title I & II	15OCT99A	01AUG01A		
CFHEBTCN	CF	Construction	06DEC01A	14APR03A		
CFHEBTCN10	CF	HEBT Tunnel Truck Entrance Available		25NOV02A		
CFHEBTBOD	CF	HEBT Tunnel BOD	14APR03A			
HEBT Service Building						
CFHESVEN	CF	Title I & II	15OCT99A	01AUG01A		
CFHESVCN	CF	Construction	14MAR02A	28MAR03A		
CFHESVBOD	CF	HEBT Service Building BOD	28MAR03A			
Ring Tunnel						
CFRIEN	CF	Title I & II	15OCT99A	01AUG01A		
CFRIEN5	CF	Start Ring Tunnel Construction	06DEC01A			
CFRICN	CF	Construction	05DEC01A	12JUN03A		
CFRIBOD	CF	Ring Tunnel BOD	12JUN03A		1B-05	31AUG03
Ring Service Building						
CFRISVEN	CF	Title I & II	15OCT99A	01AUG01A		
CFRISVCN	CF	Construction	22MAY02A	02MAY03A		
CFRISVBOD	CF	Ring Service Building BOD		02MAY03A		
RTBT Tunnel						
CFRTBTEN	CF	Title I & II	15OCT99A	01OCT01A		
CFRTBTCN	CF	Construction	06DEC01A	05SEP03A		
CFRTBTBOD	CF	RTBT Tunnel BOD	05SEP03A			
RTBT Service Building						
CFRTSVREN	CF	Title I & II	15OCT99A	01AUG01A		
CFRTSVRCN	CF	Construction	02DEC02A	22OCT03A		
CFRTSVRBOI	CF	RTBT Service Building BOD	22OCT03A			
Target Building						
CFTGEN	CF	Title I & II	05OCT99A	30JUN02A		
CFTGEN5	CF	Start Target Building Construction	02OCT00A			
CFTGCN	CF	Construction thru Hot Cell RFE	02OCT00A	12APR04A		
CFTG	CF	Target Blding Ready for mono liner & base plate	03JUN02A			
CFTGRFE1	CF	Start Target Building Bulk Shielding Install		07AUG03A		
CFTGBOD3	CF	Satellite Building (2TU) RFE for Instruments	30JAN04A			
CFTGRFE2	CF	Target Building ready for hot cell install		12APR04A		
CFTGRFE3	CF	Target moderator Refrigerator Install		05JUL04A		
CFTGCN10	CF	Construction Continues beyond Hot Cell	13APR04A	28FEB05		



Activity ID	RESP	Activity Description	Early Start	Early Finish	PEP ID	PEP Date
CFTG1	CF	Target Building Complete	28FEB05		2-23	31MAY05
Central Utilities Building						
CFCUBEN	CF	Title I & II	07DEC99A	13JUL01A		
CFCCUUT	CF	Tempory Utilities Available Front End and DTL		17JUN02A		
CFCUBCN	CF	Construction	10DEC01A	30MAY03A		
CFCUBBOD	CF	C.U.B. BOD		30MAY03A		
CFCUB1	CF	Full Utilities Available (CUB,TVA,SU)		05AUG03A		
Central Lab & Office Building						
CFCLOEN	CF	CLO Title I & II	07JAN00A	21DEC01A		
CFCLOEN10	CF	CLO Construction	12AUG02A	31DEC04		
CFCLOEN15	CF	CLO BOD		31DEC04		
CHL Building						
CFCRYEN	CF	CHL Title I & II	09AUG00A	27JUL01A		
CFCRYCN	CF	CHL Construction	28NOV01A	03DEC02A		
CFCRYBOD	CF	Cryo BOD		03DEC02A		
RF Building						
CFSRFEN	CF	RF Title I & II	09AUG00A	27JUL01A		
CFSRFCN	CF	RF Construction	26DEC01A	03DEC02A		
CFSRFBOD	CF	RF BOD		03DEC02A		
Integrated Controls Systems						
CTRD	CO	R&D	01OCT98A	29SEP00A		
CTEN	CO	Title I & II	01OCT99A	30SEP02A		
CTEN5	CO	Global Controls Design Complete		30SEP02A	2-25	31JAN03
CTIN15	CO	Start Front End Controls Installation	28JUN02A		2-26	31OCT02
CTIN02	CO	ICS Ready for FE Commissioning	29OCT02A			
CTIN04	CO	ICS ready for DTL Commissioning	22AUG03A			
CTIN18	CO	ICS Ready for cooldown		01APR04A		
CTIN06	CO	ICS ready for CCL Commissioning	23AUG04A			
CTIN08	CO	ICS Ready for SC Commissioning	01JUL05			
CTIN10	CO	ICS ready for HEBT & Ring Commissioning	08FEB06			
CTIN17	CO	ICS ready for Target Commissioning	08MAR06			
CTIN5	CO	Integrated Controls Subproject Test Complete		31MAR06*	2-27	31MAY06