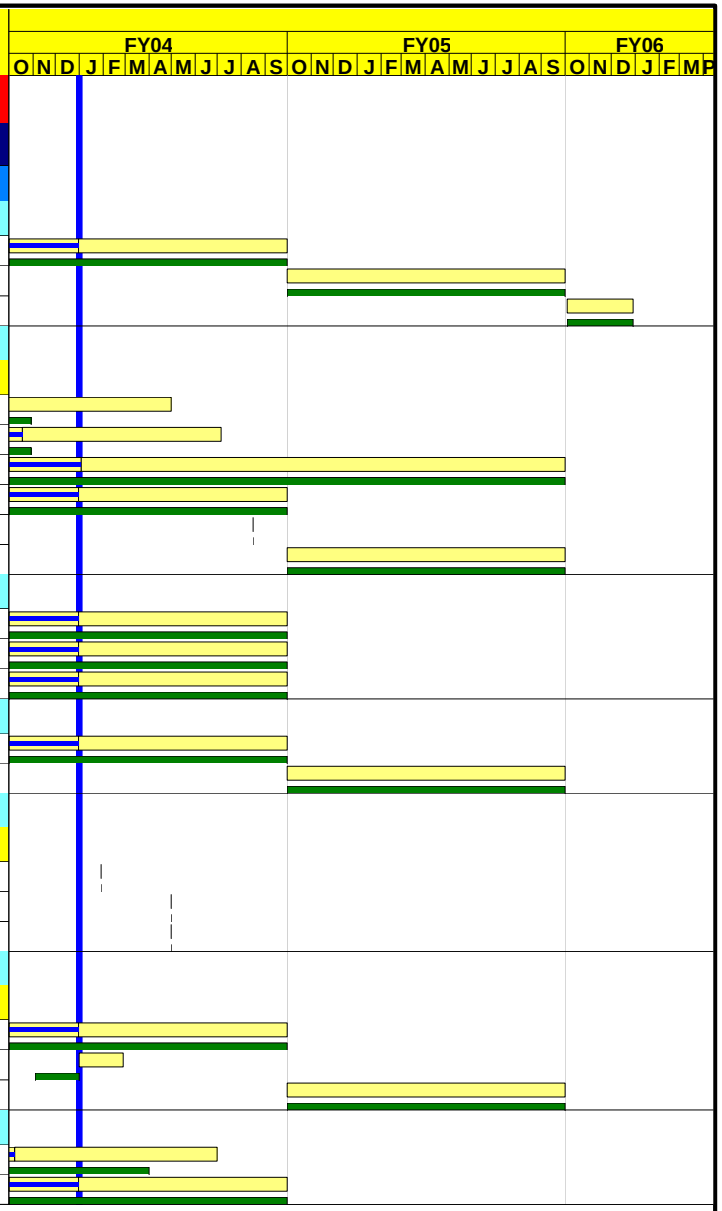
Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1 Spallation Neutron Source Project								
1.04 1.4 Linac Systems (LANL)								
1.04.07 1.4.7 ORNL Coordination								
1.04.07.01 1.4.7.1 ORNL Coordination								
AS10027164	Linac Equip and Consumables - FY04	251	25	188	01OCT03A	30SEP04	213,465	
AS10027174	Linac Equip and Consumables - FY05	250	0	188	01OCT04	30SEP05	472,162	
AS10027214	Linac Equip and Consumables - FY06	61	0	188	03OCT05	30DEC05	0	
1.04.07.04 1.4.7.4 Linac Installation Services								
1.04.07.04.02 1.4.7.4.2 Linac Installation Services Group								
ASLT004520	IPL - DTL/CCL Linac Tunnel Building Prep	55	48	561	03MAR03A	30APR04	65,640	
ASLT004551	SC Linac Tunnel Building Prep	64	29	561	01JUL03A	05JUL04	31,603	
AS14740039	Lease of Temporary Site Offices	501	13	249	01OCT03A	30SEP05	138,348	
AS14740045	Installation Services FY04	251	25	249	01OCT03A	30SEP04	985,105	
AS14740046	CMCIP Payment FY04	1	0	0	17AUG04*	17AUG04	340,000	
AS14740055	Installation Services FY05	250	0	249	01OCT04	30SEP05	943,603	
1.04.07.05 1.4.7.5 Linac FC Power Supplies								
AS14750003	ORNL Field Coordination FY04	251	25	499	01OCT03A	30SEP04	241,233	
AS14750013	HVCM Field Coordination FY04	250	25	499	01OCT03A	30SEP04	395,129	
AS14750014	HVCM FY04 R&D	251	25	499	01OCT03A	30SEP04	132,038	
1.04.07.06 1.4.7.6 Linac FC Diagnostics								
AS14760031	Diagnostics Field Coordination FY04	251	25	249	01OCT03A	30SEP04	734,671	
AS14760032	Diagnostics Field Coordination FY05	250	0	249	01OCT04	30SEP05	483,222	
1.04.07.08 1.4.7.84 Linac Spares								
1.04.07.08.02 1.4.7.8.2 Linac Spare 402.5 MHz Klystrons								
AS14780003	Prototype 402.5 MHz Klystron Spare	1	0	668	30JAN04*	30JAN04	814,170	
AS14780005	402.5 MHz Klystron Spare #2	1	0	604	30APR04*	30APR04	367,500	
AS14780007	402.5 MHz Klystron Spare #3	1	0	604	30APR04*	30APR04	367,500	
1.04.07.10 1.4.7.10 Linac RF								
1.04.07.10.01 1.4.7.10.1 Linac RF								
AS14721086	RF Field Coordination FY04	251	25	249	01OCT03A	30SEP04	1,962,483	
AS14721E04	Procure Spare PC Boards for SC Transmitters	39	0	649	02JAN04*	26FEB04	81,023	
AS14721087	RF Field Coordination FY05	250	0	249	01OCT04	30SEP05	599,350	
1.04.07.11 1.4.7.11 Linac FC Vacuum								
ASVG001000	RATS Vacuum work for Linac	63	45	563	03MAR03A	29JUN04	201,585	
AS14711004	Vacuum FC FY04	251	25	499	01OCT03A	30SEP04	704,011	



Start Date 01OCT96
Finish Date 30MAR06
Data Date 01JAN04
Run Date 12JAN04 15:38

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Early Bar
Progress Bar
Critical Activity

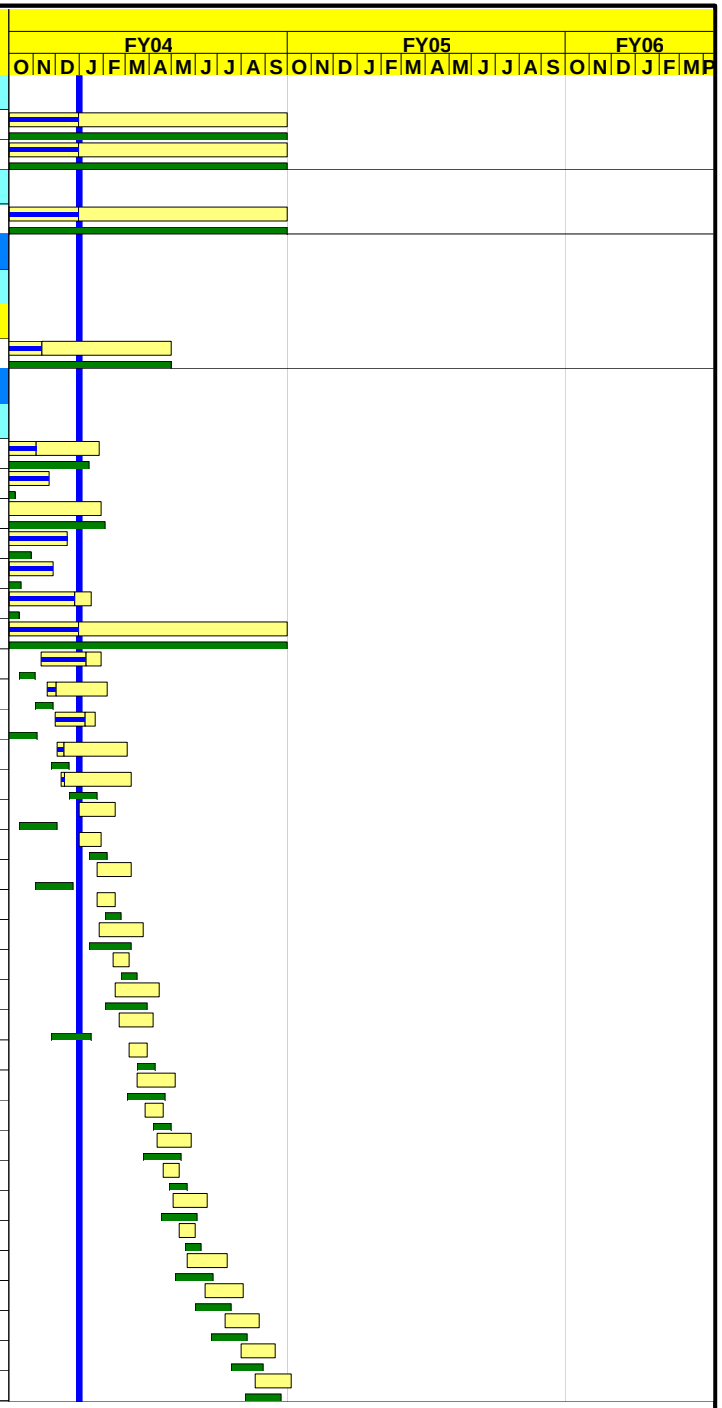
SNS9 - OASD

Detailed Integrated Project Schedule

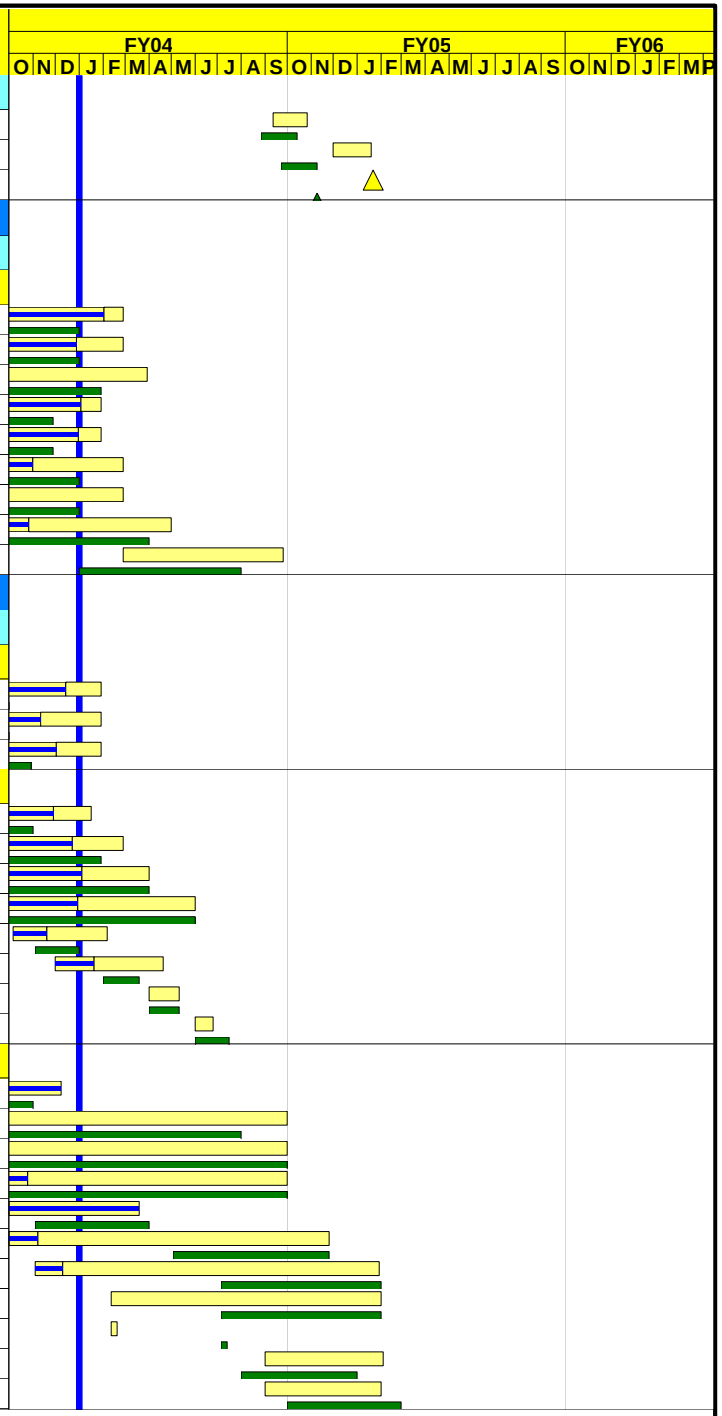
Integration Cycle #57 Conventional Facilities

SNS SPALLATION NEUTRON SOURCE

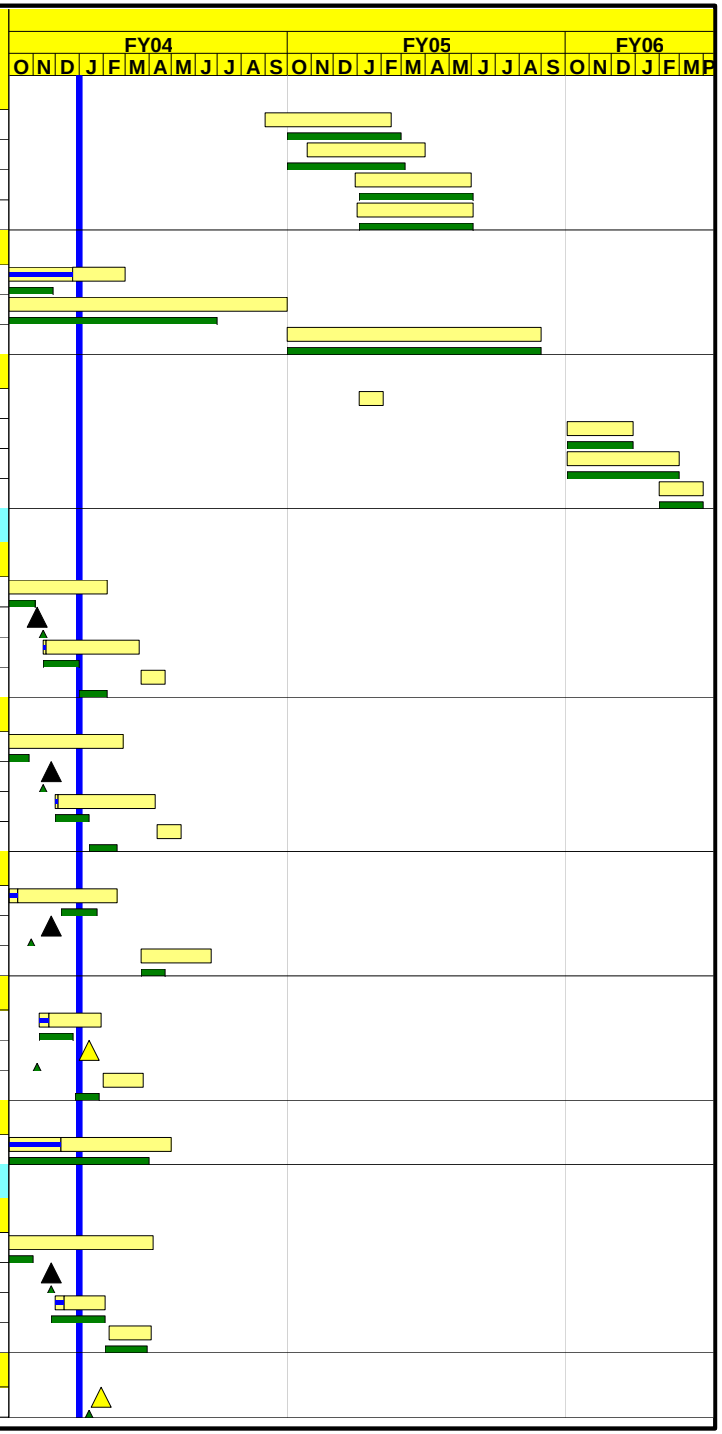
Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1.04.07.14	**1.4.7.14 Linac FC Mechanical**							
AS14721105	ASD Linac FC Mechanical FY04	251	25	499	01OCT03A	30SEP04	584,020	
AS14721115	Magnet Group FC FY04	251	25	499	01OCT03A	30SEP04	250,136	
1.04.07.15	**Linac Survey & Alignment FC**							
AS14715004	Linac Survey & Alignment FC FY04	251	25	499	01OCT03A	30SEP04	371,522	
1.04.16	**1.4.16 ORNL Transfer Lines Fab Installation**							
1.04.16.05	**1.4.16.5 ORNL Transfer Lines/Piping**							
1.04.16.05.02	**1.4.16.5.2 ORNL Transfer Lines/Warm Tunnel Pipin**							
ASLT025012	Manufacture U Tubes	167	29	343	02SEP03A	30APR04	185,867	
1.04.17	**1.4.17 ORNL Support for Cryomodule Fabrication**							
1.04.17.04	**1.4.17.4 Cavity/Cryomodule Assy Labor**							
AS17041010	Cavity String Assembly of CM H-1	17	65	466	02JUN03A	27JAN04	7,979	
AS17040080	Cavity String Assembly of CM M-8	16	100		16JUN03A	21NOV03A	8,006	
AS17041020	Cavity String Assembly of CM H-2	17	25	479	08AUG03A	29JAN04	0	
AS17040090	Cavity String Assembly of CM M-9	15	100		02SEP03A	15DEC03A	8,084	
AS17040075	CM Assembly of CM M-7	32	100		01OCT03A	26NOV03A	14,297	
AS17040100	Cavity String Assembly of CM M-10	16	80	466	01OCT03A	15JAN04	8,151	
AS17040140	CoS and Matls and Supplies FY04	251	25	499	01OCT03A	30SEP04	258,096	
AS17040110	Cavity String Assembly of CM M-11	16	75	466	13NOV03A	30JAN04	8,151	
AS17041030	Cavity String Assembly of CM H-3	17	15	492	19NOV03A	06FEB04	8,062	
AS17040085	CM Assembly of CM M-8	32	75	630	01DEC03A	21JAN04	14,386	
AS17041040	Cavity String Assembly of CM H-4	17	10	492	02DEC03A	03MAR04	10,957	
AS17041050	Cavity String Assembly of CM H-5	23	5	504	08DEC03A	08MAR04	10,957	
AS17040095	CM Assembly of CM M-9	32	0	626	02JAN04	17FEB04	14,297	
AS17041060	Cavity String Assembly of CM H-6	18	0	546	02JAN04	28JAN04	10,957	
AS17040105	CM Assembly of CM M-10	32	0	626	26JAN04	09MAR04	14,743	
AS17041070	Cavity String Assembly of CM H-7	16	0	550	26JAN04	16FEB04	10,957	
AS17041015	CM Assembly of CM H-1	40	0	466	28JAN04	23MAR04	14,164	
AS17041080	Cavity String Assembly of CM H-8	15	0	550	16FEB04	05MAR04	10,957	
AS17041025	CM Assembly of CM H-2	40	0	466	18FEB04	14APR04	14,164	
AS17040115	CM Assembly of CM M-11	32	0	621	23FEB04*	07APR04	14,164	
AS17041090	Cavity String Assembly of CM H-9	16	0	550	08MAR04	29MAR04	10,957	
AS17041035	CM Assembly of CM H-3	35	0	466	17MAR04	05MAY04	19,241	
AS17041100	Cavity String Assembly of CM H-10	16	0	550	29MAR04	20APR04	10,957	
AS17041045	CM Assembly of CM H-4	33	0	466	12APR04	27MAY04	19,241	
AS17041110	Cavity String Assembly of CM H-11	16	0	550	20APR04	11MAY04	10,957	
AS17041055	CM Assembly of CM H-5	33	0	466	03MAY04	17JUN04	21,468	
AS17041120	Cavity String Assembly of CM H-12	14	0	552	11MAY04	31MAY04	10,957	
AS17041065	CM Assembly of CM H-6	34	0	466	21MAY04	12JUL04	21,468	
AS17041075	CM Assembly of CM H-7	32	0	466	16JUN04	02AUG04	21,468	
AS17041085	CM Assembly of CM H-8	31	0	466	12JUL04	23AUG04	21,468	
AS17041095	CM Assembly of CM H-9	31	0	466	02AUG04	14SEP04	21,468	
AS17041105	CM Assembly of CM H-10	32	0	466	20AUG04	05OCT04	21,488	



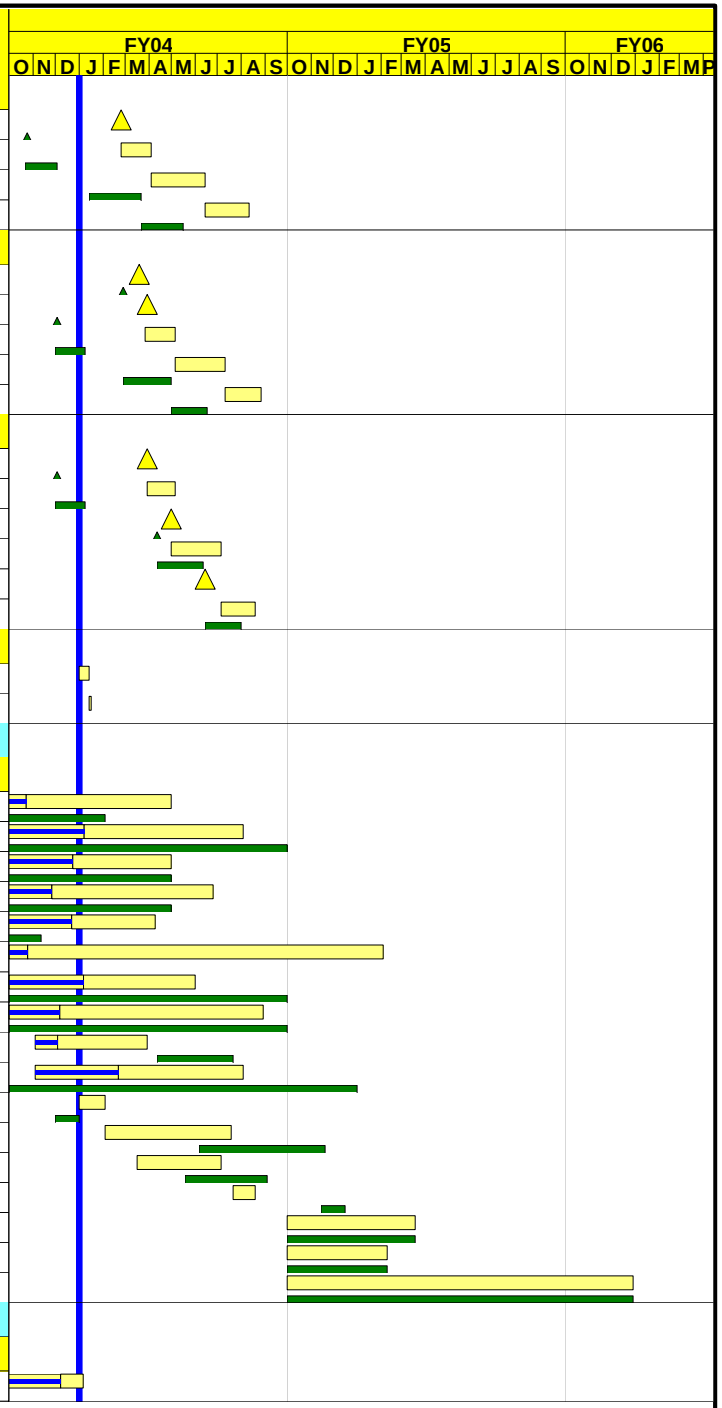
Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1.04.17.04	**1.4.17.4 Cavity/Cryomodule Assy Labor**							
AS17041115	CM Assembly of CM H-11	32	0	466	13SEP04	26OCT04	21,779	
AS17041125	CM Assembly of CM H-12	32	0	427	30NOV04	18JAN05	22,090	SC20
AS17041126	Complete Cryomodule Assembly	0	0	424		21JAN05	0	
1.04.18	**1.4.18 ORNL Refrigeration System**							
1.04.18.01	**1.4.18.1 ORNL Refrigeration System**							
1.04.18.01.01	**1.4.18.1.1 CHL Facility Installation**							
ASCH001621	Install CHL & Tunnel Warm Gas Piping	65	93	649	03MAR03A	26FEB04	214,258	
ASCH001701	Install 4.5K MCB	167	83	343	03MAR03A	26FEB04	50,895	
ASCH001980	Install CHL 2.1K SCB	126	29	627	03MAR03A	29MAR04	55,394	
ASCH002271	Install Expansion Cans	70	92	668	03MAR03A	30JAN04	9,193	
ASCH002291	Install Utility Systems	90	91	670	03MAR03A	28JAN04	292,605	
ASCH002410	Install CHL Dewars and Piping	73	67	503	03MAR03A	26FEB04	33,137	
ASCH002691	Install/Test CHL Control Room	135	54	648	03MAR03A	27FEB04	5,614	
ASCH005010	CHL System Commissioning	152	37	343	07JUL03A	30APR04	482,546	
AS14181104	Purchase Cyrogens	146	0	503	27FEB04	24SEP04	350,099	
1.04.19	**1.4.19 ORNL Linac Assembly & Installation**							
1.04.19.01	**1.4.19.1 ORNL RF Assembly & Installation**							
1.04.19.01.01	**1.4.19.1.1 ORNL DTL RF Systems Installation**							
ASKB010101	KH - DTL_ME2 Integrated Testing	46	86	670	03MAR03A	28JAN04	99,217	
ASLT004021	Install Linac Tunnel Waveguide	61	76	670	03MAR03A	28JAN04	103,822	
ASKB015051	DTL_ME3 Integrated Testing	89	74	641	16JUN03A	30JAN04	90,980	DTLINK36
1.04.19.01.02	**1.4.19.1.2 ORNL CCL RF Systems Installation**							
ASKB020001	Install CCL_ME1	53	83	331	28MAR03A	15JAN04	166,454	CCLFB90
ASKB025011	Install CCL_ME2	68	80	271	28MAR03A	27FEB04	125,944	
ASKB030011	Install CCL_ME3 System	78	76	260	28MAR03A	31MAR04	118,278	
ASKB035011	Install CCL_ME4 System	49	64	565	28MAR03A	31MAY04	117,936	CCLFB80
ASKB020501	CCL_ME1 Integrated Testing	39	36	320	06OCT03A	06FEB04	47,416	CCLFB100
ASKB025050	CCL_ME2 Integrated Testing	35	36	271	01DEC03A	19APR04	46,516	
ASKB030050	CCL_ME3 Integrated Testing	28	0	260	01APR04	11MAY04	47,316	
ASKB035050	CCL_ME4 Integrated Testing	19	0	565	01JUN04	25JUN04	47,316	CCL275
1.04.19.01.03	**1.4.19.1.3 ORNL SCL RF Systems Installation**							
ASKB039011	Install SCL_ME1 System (1st 805RF system))	84	100		03MAR03A	08DEC03A	206,629	LAN21
ASKB044016	Install SCL_ME2 System	142	28	267	03MAR03A	30SEP04	278,474	
ASKB049016	Install SCL_ME3 System	142	14	271	03MAR03A	30SEP04	259,146	
ASKB054015	Install SCL_ME4 System	142	25	408	01JUL03A	30SEP04	177,518	
ASKB039050	SCL_ME1 Integrated Testing	53	100		01OCT03A	19MAR04A	193,125	LAN31
ASKB059015	Install SCL_ME5 System	144	9	375	01OCT03A	24NOV04	246,923	
ASKB064015	Install SCL_ME6 System	261	8	334	03NOV03A	28JAN05	292,919	
ASKB069015	Install SCL_ME7 System	242	0	333	12FEB04	31JAN05	318,328	
ASKB081120	Install Other Necessary Racks	6	0	654	12FEB04	19FEB04	29,680	
ASKB044050	SCL_ME2 Integrated Testing	105	0	267	02SEP04	04FEB05	218,721	
ASKB049050	SCL_ME3 Integrated Testing	101	0	271	02SEP04	31JAN05	156,289	



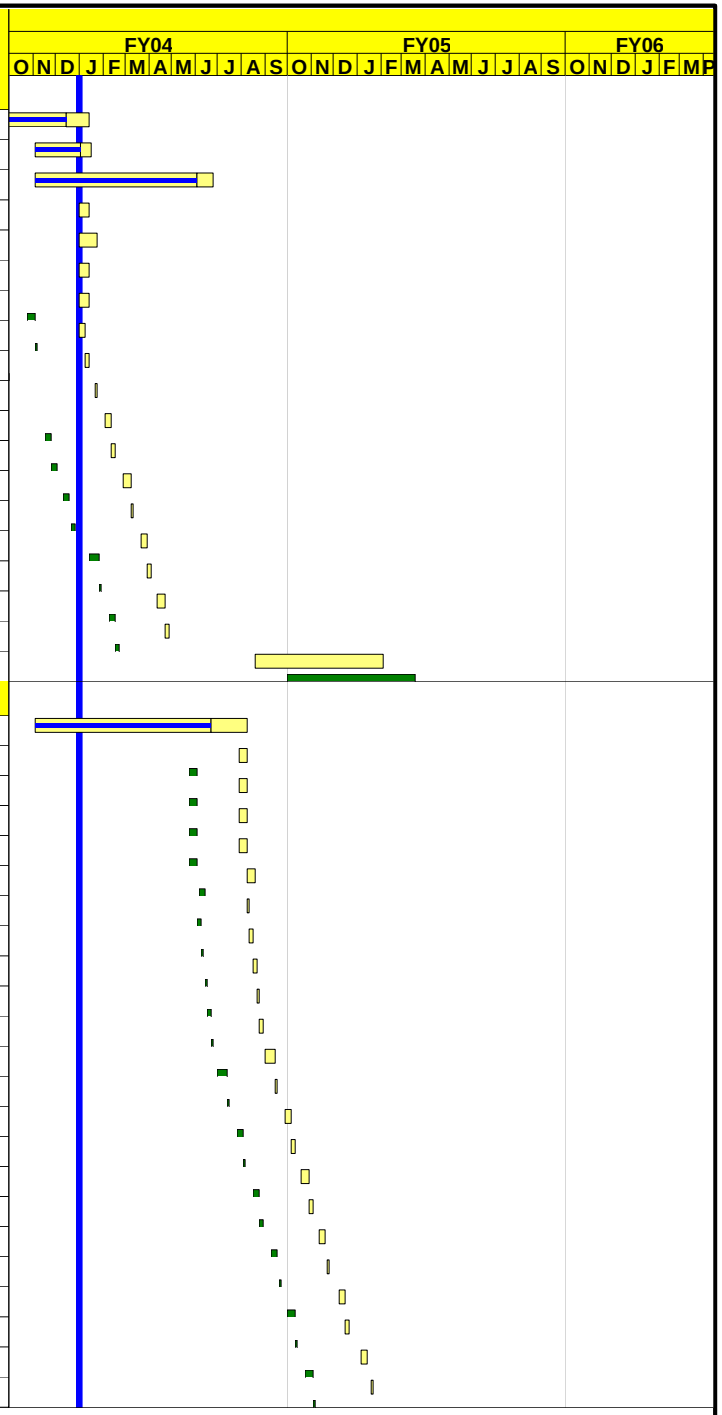
Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1.04.19.01.03	**1.4.19.1.3 ORNL SCL RF Systems Installation**							
ASKB054050	SCL_ME4 Integrated Testing	111	0	408	02SEP04	14FEB05*	153,304	LAN51
ASKB059050	SCL_ME5 Integrated Testing	105	0	375	28OCT04	31MAR05	179,201	
ASKB064050	SCL_ME6 Integrated Testing	105	0	334	30DEC04	31MAY05	212,267	
ASKB069050	SCL_ME7 Integrated Testing	105	0	333	31DEC04	01JUN05	218,246	
1.04.19.01.04	**1.4.19.1.4 ORNL RF Test Facility Installation**							
ASTF001661	Install RFTF_ME System (402 MHz)	141	81	271	03MAR03A	01MAR04	82,182	
ASTF004441	RFTF_ME Systems Test and Integration	103	29	271	01MAY03A	30SEP04	96,498	
ASTF010000	RF Component Testing	228	0	271	01OCT04	30AUG05	125,825	
1.04.19.01.06	**1.4.19.1.6 Linac Matching Section Installation**							
ASHT000200	LAMS RF Waveguide Installation	21	0	416	04JAN05*	02FEB05	32	
AS14197050	Manufacture HEBT Cavities	61	0	166	03OCT05*	30DEC05	674,924	
ASHS007040	HEBT_ME9 System Installation	101	0	126	03OCT05*	28FEB06	240,935	
ASHS007090	HEBT_ME9 System Integrated Testing	42	0	126	01FEB06	30MAR06	56,454	
1.04.19.02	**1.4.19.2 DTL Assembly & Installation**							
1.04.19.02.03	**1.4.19.2.3 DTL Tank 5 Assembly & Installation**							
ASDT000505	DTL5 tank assembly and leak test in FE Bldg	24	29	306	02JUN03A	06FEB04	41,124	DTFB
ASDT000504	IPL - Receive last DTL5 Drift Tubes	0	100			06NOV03A	0	
ASDT004000	DTL5 DT fiducialize, install, align and tune	30	3	306	14NOV03A	19MAR04	93,841	
ASDT004100	DTL5 transport to tunnel, connect utils and test	24	0	306	22MAR04	23APR04	53,834	
1.04.19.02.04	**1.4.19.2.4 DTL Tank 6 Assembly & Installation**							
ASDT000605	DTL6 tank assembly and leak test in FE Bldg	24	24	291	02JUN03A	27FEB04	45,118	
ASDT000604	IPL - Receive last DTL6 Drift Tubes	0	100			24NOV03A	0	DTFB30
ASDT005000	DTL6 DT fiducialize, install, align and tune	29	3	291	01DEC03A	09APR04	97,375	
ASDT005100	DTL6 transport to tunnel, connect utils and test	25	0	291	12APR04	14MAY04	59,358	
1.04.19.02.05	**1.4.19.2.5 DTL Tank 4 Assembly & Installation**							
ASDT003000	DTL4 DT fiducialize, install, align and tune	30	8	287	01OCT03A	19FEB04	89,208	
ASDT000404	IPL - Receive last DTL4 Drift Tubes	0	100			24NOV03A	0	
ASDT003100	DTL4 transport to tunnel, connect utils and test	64	0	266	22MAR04*	21JUN04	54,332	DTLIN
1.04.19.02.06	**1.4.19.2.6 DTL Tank 2 Assembly & Installation**							
ASDT006000	DTL2 DT fiducialize, install, align and tune	30	16	584	10NOV03A	30JAN04	104,761	
ASDT000204	IPL - Receive last DTL 2 Drift Tubes from LANL	0	0	584		14JAN04*	0	DTFB30
ASDT006100	DTL2 transport to tunnel, connect utils and test	37	0	584	02FEB04	23MAR04	54,432	DTL080
1.04.19.02.08	**DTL Dipole Magnets**							
AS04190209	DTL Equipment Procurements	125	32	604	01OCT03A	30APR04	299,964	
1.04.19.03	**1.4.19.3 CCL Assembly & Installation**							
1.04.19.03.01	**1.4.19.3.1 CCL Module 1 Assembly & Installation**							
ASCC00010A	CCL-1 - Intersegment Beam Pipe Assy	30	0	621	22SEP03A	07APR04	10,760	
ASCC000101	IPL - Deliver CCL Module 1	0	100			24NOV03A	0	
ASCC002100	CCL1 mechanical assembly, alignment and test	44	18	324	01DEC03A	02FEB04	158,656	CCLFB110
ASCC002150	CCL1 vac, cooling, RF & integrated testing	40	0	320	09FEB04	05APR04	63,636	
1.04.19.03.02	**1.4.19.3.2 CCL Module 2 Assembly & Installation**							
ASCC000201	IPL - Deliver CCL2 module	0	0	668		30JAN04*	0	



Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1.04.19.03.02	**1.4.19.3.2 CCL Module 2 Assembly & Installation**							
ASCC000199	IPL - Deliver EMQ Magnets	0	0	232		24FEB04*	0	
ASCC000200	CCL2 Intersegment Beam Pipe Assy	28	0	232	25FEB04	05APR04	50,517	
ASCC002400	CCL2 mechanical assembly, alignment and test	49	0	232	06APR04	14JUN04	189,448	
ASCC002450	CCL2 vac, cooling, RF & integrated testing	39	0	232	15JUN04	10AUG04	62,481	
1.04.19.03.03	**1.4.19.3.3 CCL Module 3 Assembly & Installation**							
ASCC000301	IPL - Deliver CCL Module 3	0	0	254		18MAR04*	0	
ASCC000299	IPL - Deliver EMQ Magnets	0	0	220		29MAR04*	0	
ASCC000300	CCL3 Intersegment Beam Pipe Assy	27	0	220	29MAR04	05MAY04	45,996	
ASCC002700	CCL3 mechanical assembly, alignment and test	44	0	220	06MAY04	09JUL04	192,259	
ASCC002750	CCL3 vac, cooling, RF & integrated testing	34	0	220	12JUL04	26AUG04	63,636	
1.04.19.03.04	**1.4.19.3.4 CCL Module 4 Assembly & Installation**							
ASCC000399	IPL - Deliver EMQ Magnets	0	0	600		29MAR04*	0	
ASCC000400	CCL-4 - Intersegment Beam Pipe Assy	27	0	600	30MAR04	06MAY04	70,449	
ASCC000401	IPL - Deliver CCL Module 4	0	0	463		30APR04*	0	
ASCC003000	CCL4 mechanical assembly, alignment and test	44	0	463	30APR04	05JUL04	188,476	CCLFB120
AS1CCLFB80	IPS MS Final Assembly of Last Structure Module	0	0	574		14JUN04*	0	CCLFB80
ASCC003100	CCL4 vac, cooling, RF & integrated testing	33	0	463	06JUL04	19AUG04	63,636	
1.04.19.03.05	**1.4.19.3.5 LEDPS Assembly & Installation**							
ASCC051100	LEDPS Assembly/Test/Transport to Site	7	0	677	02JAN04	12JAN04	8,104	
ASSC001000	Install LEDPS	4	0	677	13JAN04	16JAN04	7,085	
1.04.19.04	**1.4.19.4 Diagnostics Assembly & Installation**							
1.04.19.04.01	**Diagnostics Assembly & Installation**							
ASDT015141	DTL Diagnostics Installation	209	55	605	03MAR03A	29APR04	29,458	
AS19040100	Laser Wire Construction	191	50	465	09JUN03A	02AUG04	684,234	
AS19040101	Dbox Construction	117	60	604	09JUN03A	30APR04	65,316	
AS19040102	Reference Construction	191	44	565	09JUN03A	25JUN04	129,456	
ASLT050160	DTL Tunnel Diagnostics Installation	8	61	619	01JUL03A	09APR04	2,758	
AS14194104	Wire scanner actuator and LANL timing module	1	5	416	01OCT03A	02FEB05	273,470	
AS19040112	Test Stand Construction	251	40	583	01OCT03A	01JUN04	157,500	
AS19040113	Linac Diagnostics Devices FY04	251	20	521	01OCT03A	30AUG04	500,141	
ASDG500208	CCL Diagnostics Assembly	70	20	627	03NOV03A	29MAR04	3,646	
ASDGLW1904	Laser Wire Installation	313	40	541	03NOV03A	02AUG04	89,035	
ASDT091020	DTL Diagnostics Commissioning Structure	21	0	667	02JAN04	02FEB04	14,128	
ASCC018110	CCL Diagnostics Installation	116	0	551	03FEB04*	19JUL04	16,184	
ASLT050410	CCL Tunnel Diagnostics Installation	75	0	561	17MAR04	05JUL04	27,749	
ASCC090020	CCL Diagnostics Commissioning Structure	20	0	528	23JUL04*	19AUG04	17,259	
ASDG500237	SRF Diagnostics Assembly	113	0	386	01OCT04*	16MAR05	7,279	
ASLT053020	SCL Tunnel Diagnositics Installation	87	0	412	01OCT04*	08FEB05	34,378	
ASSC060100	SCL Diagnostics Installation	311	0	188	01OCT04*	30DEC05	35,327	
1.04.19.05	**1.4.19.5 SCL Assembly & Installation**							
1.04.19.05.01	**1.4.19.5.1 MB Cryomodule Assembly & Installation**							
ASMB001581	Install Cryomodule MB-2	3	81	570	01AUG03A	06JAN04	1,664	

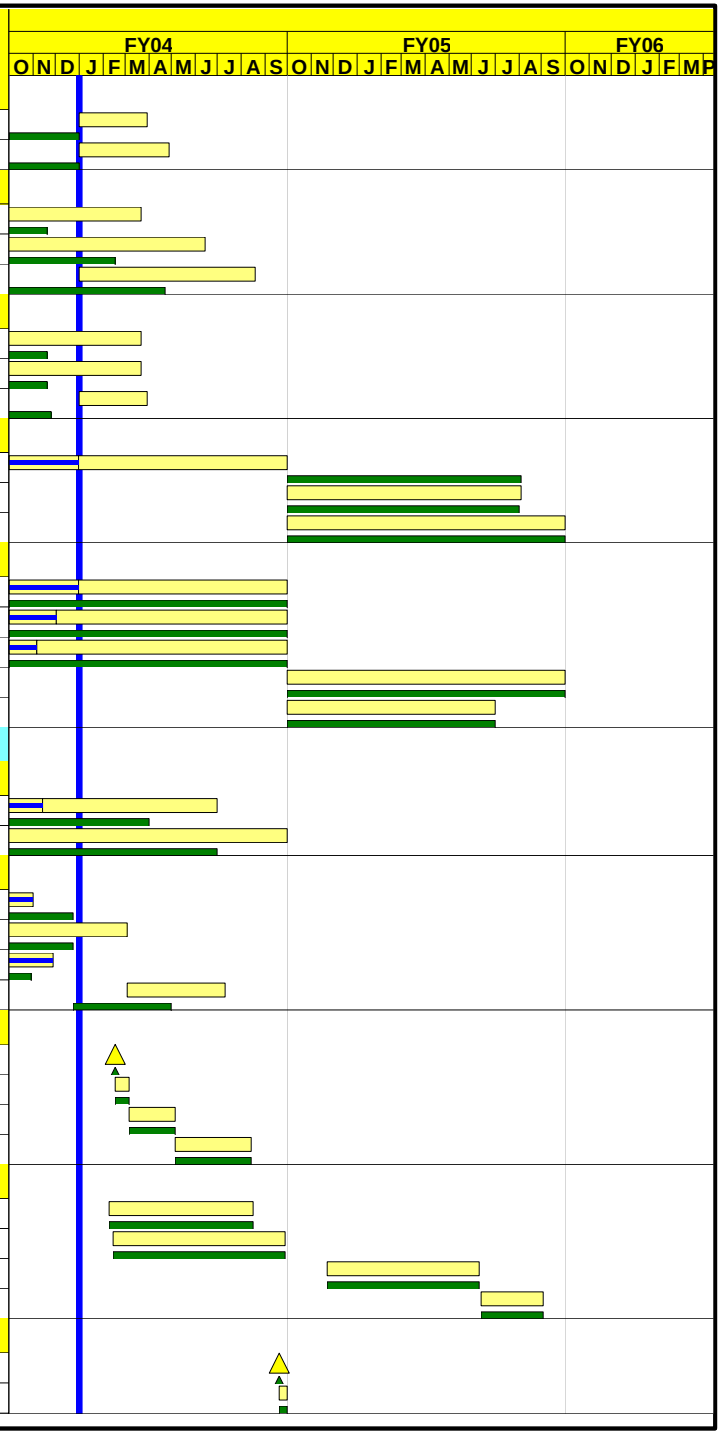


Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1.04.19.05.01	**1.4.19.5.1 MB Cryomodule Assembly & Installation**							
ASMB001961	Install Cryomodule MB-3	4	81	570	06AUG03A	12JAN04	1,667	
ASMB002340	Install Crymodule MB-4	3	81	570	03NOV03A	15JAN04	1,669	
ASSCMBPREP	SCL Medium Beta Croymodules Location Prep	1	91	565	03NOV03A	25JUN04	5,787	
ASMB000104	IPL - SCL MB04 - Receive/Inspect/place in tunnel	7	0	573	02JAN04	12JAN04	9,741	
ASMB000105	IPL - SCL MB05 - Receive/Inspect/Place in tunnel	15	0	565	02JAN04	23JAN04	9,783	
ASMB000106	IPL - SCL MB06 - Receive/Inspect/place in tunnel	7	0	681	02JAN04	12JAN04	9,782	
ASMB000107	IPL - SCL MB07 - Receive/Inspect/place in tunnel	7	0	681	02JAN04*	12JAN04	9,528	
ASMB003480	Install Crymodule MB07	4	0	684	02JAN04	07JAN04	1,644	
ASMB003100	Install Cryomodule MB06	3	0	681	08JAN04	12JAN04	1,683	
ASMB002720	Install Cryomodule MB-5	3	0	565	21JAN04	23JAN04	1,675	
ASMB000108	IPL - SCL MB08 - Receive/Inspect/place in tunnel	7	0	656	04FEB04*	12FEB04	9,528	
ASMB003860	Install Crymodule MB-8	3	0	656	13FEB04	17FEB04	1,644	
ASMB000109	IPL - SCL MB09 - Receive/Inspect/place in tunnel	7	0	536	27FEB04*	08MAR04	9,528	
ASMB004240	Install Crymodule MB-9	3	0	536	09MAR04	11MAR04	1,644	
ASMB000110	IPL - SCL MB10 - Receive/Inspect/place in tunnel	7	0	523	22MAR04*	30MAR04	9,528	
ASMB004620	Install Crymodule MB-10	3	0	523	31MAR04	05APR04	1,644	
ASMB000111	IPL - SCL MB11 - Receive/Inspect/place in tunnel	7	0	511	13APR04*	21APR04	9,528	
ASMB005000	Install Crymodule MB-11	4	0	511	22APR04	27APR04	1,644	
ASMB036810	Med Beta CM Integrated Testing	114	0	267	20AUG04	04FEB05	202,344	
1.04.19.05.02	**1.4.19.5.2 HB Cryomodule Assembly & Installation**							
ASSCHBPREP	SCL High Beta Cryomodule Location Prep	124	83	536	03NOV03A	09AUG04	5,305	
ASHB000201	IPL - SCL HB01 Receive/Inspect/transport to site	7	0	440	30JUL04	09AUG04	8,659	
ASHB000202	IPL - SCL HB02 Receive/Inspect/Transport to Site	7	0	443	30JUL04	09AUG04	8,659	
ASHB000203	IPL - SCL HB03 Receive/Inspect/Transport to Site	7	0	446	30JUL04	09AUG04	8,200	
ASHB000204	IPL - SCL HB04 Receive/Inspect/Transport to Site	7	0	449	30JUL04	09AUG04	8,659	
ASHB000205	IPL - SCL HB05 Receive/Inspect/transport to site	7	0	445	10AUG04	18AUG04	8,859	
ASHB006020	Install Cryomodule HB-1	3	0	440	10AUG04	12AUG04	1,693	
ASHB006400	Install Cryomodule HB-2	3	0	440	13AUG04	17AUG04	1,693	
ASHB006780	Install Cryomodule HB-3	3	0	440	18AUG04	20AUG04	1,693	
ASHB007160	Install Cryomodule HB-4	3	0	440	23AUG04	25AUG04	1,693	
ASHB007540	Install Cryomodule HB-5	3	0	440	26AUG04	30AUG04	1,693	
ASHB000206	IPL - SCL HB06 Receive/Inspect/transport to site	7	0	431	02SEP04	13SEP04	8,414	
ASHB007920	Install Cryomodule HB-6	3	0	431	14SEP04	16SEP04	1,693	
ASHB000207	IPL - SCL HB07 Receive/Inspect/transport to site	7	0	417	28SEP04	06OCT04	8,414	
ASHB009020	Install Cryomodule HB-7	3	0	417	07OCT04	11OCT04	2,427	
ASHB000208	IPL - SCL HB08 Receive/Inspect/transport to site	7	0	404	20OCT04	28OCT04	8,659	
ASHB009320	Install Cryomodule HB-8	3	0	404	29OCT04	02NOV04	1,693	
ASHB000209	IPL - SCL HB09 Receive/inspect/transport to site	7	0	391	11NOV04	19NOV04	8,659	
ASHB009700	Install Cryomodule HB-9	3	0	391	22NOV04	24NOV04	1,693	
ASHB000210	IPL - SCL HB10 Receive/Inspect/transport to site	7	0	378	07DEC04	15DEC04	8,659	
ASHB010080	Install Cryomodule HB-10	3	0	378	16DEC04	20DEC04	1,693	
ASHB000211	IPL - SCL HB11 Receive/Inspect/transport to site	7	0	362	06JAN05	14JAN05	6,453	
ASHB010460	Install Cryomodule HB-11	3	0	362	18JAN05	20JAN05	1,693	

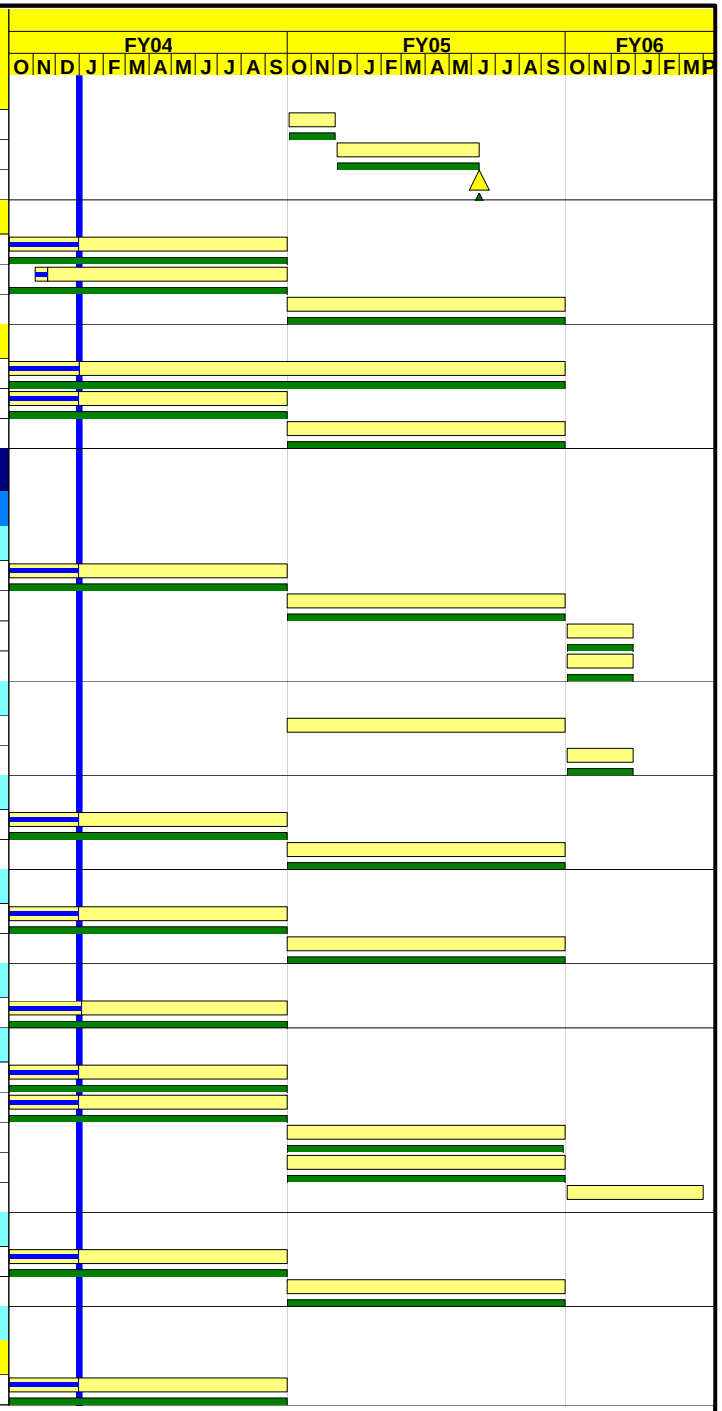


Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1.04.19.05.02	**1.4.19.5.2 HB Cryomodule Assembly & Installation**							
ASHB000212	IPL - SCL HB12 Receive/Inspect/Transport to Site	7	0	349	31JAN05	08FEB05	6,453	
ASHB010840	Install Cryomodule HB-12	3	0	349	09FEB05	11FEB05	1,693	SC23
ASHB036800	High Beta CM Integrated Testing	60	0	333	08MAR05	01JUN05	184,009	
1.04.19.05.03	**1.4.19.5.3 SCL Warm Section Assembly & Install**							
AS14931T30	Purchase Water Manifolds & Transfer Line	40	70	562	01JUL03A	30JUN04	648,316	
ASWS000100	IPL - SCL WS Deliver Magnets	0	0	665		04FEB04	0	
ASDP000300	IPL - Deliver Diff Pumps/Warm Girders	0	0	377		19JUL04	0	
ASWS000102	SCL WS - Assemble/Available for Installation	174	0	377	20JUL04	29MAR05	209,041	LAN11
ASWS001400	Install Warm Sections	76	0	408	22OCT04	14FEB05	101,571	
1.04.19.05.04	**1.4.19.5.4 High Energy Differential Pump Station**							
AS10400311	Design HEDPS	149	0	495	01MAR04*	30SEP04	0	
ASSC012840	Install HEDPS	8	0	494	28SEP04	07OCT04	6,749	
ASDP000301	SCL HEDPS - Receive/Assm/Transp to tunnel	4	0	495	01OCT04	06OCT04	4,303	
1.04.19.05.05	**1.4.19.5.5 Dummy Cryomodule Installation**							
ASSC011219	IPL - Deliver Dummy Cryomodules	0	0	591		25MAR04	0	
ASBP000101	SCL Dummy Beam Pipe Receive/Inspect	7	0	591	26MAR04	06APR04	2,740	
ASSC011220	Install Dummy Cryomodules	23	0	494	25AUG04	27SEP04	21,851	
1.04.19.05.06	**1.4.19.5.6 SCL Power Supply Testing**							
ASSC041230	SCL Power Supply Testing	58	0	308	12JAN05	05APR05	215,657	
1.04.19.06	**1.4.19.6 AC Distribution, Trays and Cables**							
1.04.19.06.01	**1.4.19.6.1 Linac AC Cables & Racks**							
AS141SFY04	Linac AC Cables & Racks Support FY04	251	25	499	01OCT03A	30SEP04	299,409	
ASKB00FY04	Linac AC Cables & Racks Installation FY04	251	25	499	01OCT03A	30SEP04	660,154	
1.04.19.06.02	**1.4.19.6.2 Linac Power Supply Installation/Testi**							
ASPS010011	CCL Power Supply Assembly	34	88	308	01MAY03A	02FEB04	31,687	
ASKB085110	DTL Power Supply Connections	5	94	683	01JUL03A	08JAN04	9,033	
ASKB087100	CCL Power Supply Connections	48	7	308	17NOV03A	15MAR04	88,644	
ASCC040120	CCL PS Testing	135	0	502	16MAR04	27SEP04	33,672	
ASKB092020	SCL Power Supply Connections	236	0	308	16MAR04	23FEB05	59,522	
ASPS040011	SRF Power Supply Assembly	85	0	499	01JUN04*	30SEP04	62,161	
1.04.20	**1.4.20 Linac LLRF Support**							
1.04.20.01	**1.4.20.1 Linac LLRF Support - LBNL**							
1.04.20.01.04	**1.4.20.1.4 DTL**							
1.04.20.01.04.01	**1.4.20.1.4.1 DTL1**							
AS0420250	Modeling	103	70	618	03MAR03A	02FEB04	33,203	
AS0420270	Verilog	54	60	644	03MAR03A	02FEB04	54,585	
1.04.20.01.04.02	**1.4.20.1.4.2 DTL 2-6**							
AS0420300	Hardware	65	100		03MAR03A	26NOV03A	52,009	
AS0420260	Modeling	70	65	618	30JUN03A	12APR04	23,963	
AS0420290	Verilog	75	55	644	30JUN03A	04MAR04	75,225	
1.04.20.01.05	**1.4.20.1.5 Coupled Cavity Linac (CCL)**							
AS0420310	Modeling	82	0	606	02JAN04	28APR04	20,784	

Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1.04.20.01.05	**1.4.20.1.5 Coupled Cavity Linac (CCL)**							
AS0420320	Verilog	61	0	627	02JAN04	29MAR04	62,616	
AS0420330	Hardware	82	0	606	02JAN04	28APR04	24,432	
1.04.20.01.06	**1.4.20.1.6 SCL - Low Beta**							
AS0420350	Modeling	119	10	632	01APR03A	22MAR04	20,283	
AS0420360	Verilog	198	7	573	01APR03A	15JUN04	88,555	
AS0420370	Hardware	160	0	528	02JAN04	19AUG04	29,260	
1.04.20.01.07	**1.4.20.1.7 SCL - High Beta**							
AS0420390	Modeling	119	10	632	01APR03A	22MAR04	20,283	
AS0420400	Verilog	214	7	632	01APR03A	22MAR04	88,184	
AS0420410	Hardware	61	0	627	02JAN04	29MAR04	34,994	
1.04.20.01.08	**1.4.20.1.8 System Integration**							
AS0420850	Project Engr. FY04	251	25	478	01OCT03A	30SEP04	198,098	
AS0420860	Project Engineer FY05	208	0	289	01OCT04*	04AUG05	130,262	
AS0420880	Matlab to HDL	250	0	249	01OCT04*	30SEP05	264,916	
1.04.20.01.09	**1.4.20.1.9 Technical Support**							
AS0420950	Engr Management FY04	251	25	499	01OCT03A	30SEP04	241,610	
AS0420970	Admin Support FY04	251	17	312	01OCT03A	30SEP04	136,388	
AS0420990	Travel FY04	251	10	249	01OCT03A	30SEP04	31,697	
AS0421000	Travel FY05	250	0	249	01OCT04	30SEP05	5,918	
AS0421010	Admin Support FY05	187	0	312	01OCT04	30JUN05	21,600	
1.04.20.02	**1.4.20.2 LLRF Support ORNL**							
1.04.20.02.01	**1.4.20.2.1 LLRF Reference Line**							
AS10420003	Ref line procurements	146	55	563	03FEB03A	29JUN04	956,334	
ASRL001003	Ref line assembly/installation	84	20	500	14APR03A	29SEP04	97,238	
1.04.20.02.03	**1.4.20.2.3 LLRF for DTL**							
ASLL000063	LLRF Installation DTL 2-6	14	100		14APR03A	31OCT03A	9,164	
AS10420064	DTL2-6 Conditioning	42	20	557	02JUN03A	02MAR04	25,347	
AS10420061	DTL1 Commissioning	43	100		01AUG03A	26NOV03A	26,343	
AS10420065	DTL2-6 Commissioning	89	0	557	03MAR04	09JUL04*	53,928	
1.04.20.02.04	**1.4.20.2.4 LLRF for CCL**							
AS10420067	Deliver 4 LLRF Units	0	0	532	17FEB04*		0	
ASLL000068	LLFR CCL Installation	14	0	532	17FEB04	05MAR04	9,187	
AS10420069	Conditioning	43	0	532	08MAR04	06MAY04	25,766	
AS10420070	Commissioning	68	0	532	07MAY04	13AUG04	40,813	
1.04.20.02.05	**1.4.20.2.5 LLRF for SCL**							
AS10420072	Delivery of LLRF Units	133	0	268	09FEB04	17AUG04*	0	
ASLL000073	LLRF SCL Installation	156	0	268	16FEB04	27SEP04	95,556	
AS10420074	Conditioning	136	0	268	23NOV04	10JUN05	83,857	
AS10420075	Commissioning	58	0	268	13JUN05	02SEP05	35,763	
1.04.20.02.06	**1.4.20.2.6 LLRF for HEBT**							
AS10420077	Deliver 2 LLRF Units	0	0	327	21SEP04*		0	
ASLL000078	LLRF HEBT Installation	9	0	327	21SEP04	01OCT04	6,145	



Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1.04.20.02.06	**1.4.20.2.6 LLRF for HEBT**							
AS10420079	Conditioning	43	0	327	04OCT04	03DEC04	26,514	
AS10420080	Commissioning	128	0	327	06DEC04	09JUN05	79,542	
ASLL000081	LLRF Finish	0	0	327		09JUN05	0	
1.04.20.02.07	**1.4.20.2.7 LLRF Development and Production**							
AS10420024	FPGA Code Development FY04	251	25	249	01OCT03A	30SEP04	128,560	
AS10420022	FCM & HPM Production	251	5	499	03NOV03A	30SEP04	1,500,425	
AS10420025	FPGA Code Development FY05	250	0	249	01OCT04	30SEP05	61,734	
1.04.20.02.08	**1.4.20.2.8 LLRF Testing and Commissioning**							
AS10420089	Integration	668	34	249	03FEB03A	30SEP05	304,049	
ASLL000087	RF Testing and Commissioning FY04	251	25	249	01OCT03A	30SEP04	428,621	
ASLL000088	RF Testing and Commissioning FY05	250	0	249	01OCT04	30SEP05	435,014	
1.05	**1.5 Ring and Transfer System**							
1.05.13	**1.5.13 Ring Field Coordination**							
1.05.13.01	**1.5.13.1 Ring Field Coordination**							
AS10028502	Ring Equip and Consumables - FY04	251	25	188	01OCT03A	30SEP04	213,465	
AS10028503	Ring Equip and Consumables - FY05	250	0	188	01OCT04	30SEP05	472,859	
AS05130016	ORNL ASD Field Coordination 1st Qrtr FY06	61	0	188	03OCT05	30DEC05	604,635	
AS10028504	Ring Equip and Consumables - FY06	61	0	188	03OCT05	30DEC05	168,131	
1.05.13.02	**1.5.13.2 Ring Spares**							
AS15132074	Ring Spares - FY05	250	0	188	01OCT04*	30SEP05	0	
AS15132075	Ring Spares - FY06	61	0	188	03OCT05	30DEC05	300,185	
1.05.13.03	**1.5.13.3 Ring FC Power Supplies**							
AS15133003	Ring Power Supplies FC FY04	251	25	249	01OCT03A	30SEP04	211,833	
AS15133004	Ring Power Supplies FC FY05	250	0	249	01OCT04	30SEP05	747,799	
1.05.13.04	**1.5.13.4 Ring FC Diagnostics**							
AS15134031	ORNL Ring FC Diagnostics FY04	251	25	249	01OCT03A	30SEP04	335,583	
AS15134041	ORNL Ring FC Diagnostics FY05	250	0	249	01OCT04	30SEP05	618,013	
1.05.13.05	**1.5.13.5 Injection Stripping Foil**							
AS15131502	Foil R&D	272	31	499	01SEP03A	30SEP04	230,756	
1.05.13.14	**1.5.13.14 Ring FC Mechanical**							
AS05132404	Ring FC Mechanical FY04	250	25	249	01OCT03A	30SEP04	489,198	
AS05132414	Magnet Group FC FY04	251	25	126	01OCT03A	30SEP04	250,084	
AS05132406	Ring FC Mechanical FY05	250	0	249	01OCT04	30SEP05	1,266,730	
AS05132415	Magnet Group FC FY05	250	0	126	01OCT04	30SEP05	630,562	
AS05132425	Mechanical Groups FY06	123	0	126	03OCT05	30MAR06	821,987	
1.05.13.15	**1.5.13.15 Ring Survey & Alignment FC**							
AS15131504	Ring Survey & Alignment FC FY04	251	25	249	01OCT03A	30SEP04	257,775	
AS15131505	Ring Survey & Alignment FC FY05	250	0	249	01OCT04	30SEP05	265,232	
1.05.13.18	**1.5.13.18 Ring Installation Services**							
1.05.13.18.01	**1.5.13.18.1 Ring Installation Services**							
AS05130631	Installation Services FY04	251	25	126	01OCT03A	30SEP04	1,079,531	



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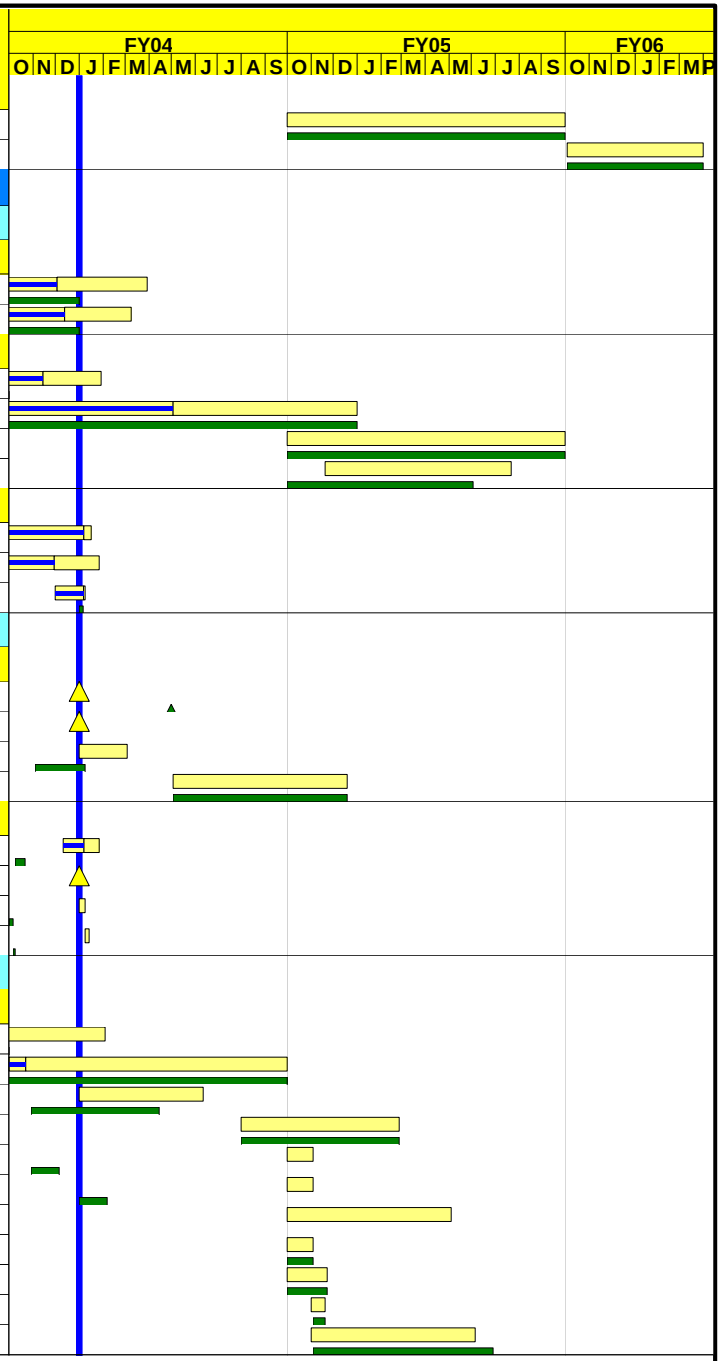
1.05.13.18.01	**1.5.13.18.1 Ring Installation Services**							
AS05130641	Installation Services FY05	250	0	126	01OCT04	30SEP05	817,140	
AS05130651	Installation Services FY06	123	0	126	03OCT05	30MAR06	669,562	
1.05.14	**1.5.14 Ring Assembly & Installation**							
1.05.14.01	**1.5.14.1 HEBT Assembly & Installation**							
1.05.14.01.01	**1.5.14.1.1 LAMS Assembly & Installation**							
ASHE001060	Install LAMS Components	35	64	519	05MAY03A	30MAR04	13,598	
ASHE002660	Install LAMS Collimator Components	27	65	586	01JUL03A	08MAR04	17,571	
1.05.14.01.02	**1.5.14.1.2 HEBT Assembly & Installation**							
ASHB000637	HEBT - Prepare HEBT Arc Magnets in RATS	270	77	668	03MAR03A	30JAN04	32,098	
ASHE005420	Install HEBT Svc Bldg Lattice Components	394	58	437	02JUN03A	31DEC04	44,454	
ASHTSH0501	HEBT Tunnel Shielding	250	0	249	01OCT04*	30SEP05	74,167	
ASHS020110	HEBT Svc Bldg Technical Components	166	0	298	19NOV04*	22JUL05	20,051	
1.05.14.01.03	**1.5.14.1.3 Linac Dump Assembly & Installation**							
ASDUL00456	IPL - Linac Dump - Prepare Magnets in RATS	47	97	615	03MAR03A	16JAN04	10,423	
ASDUL00541	Install Linac Dump Magnets	6	67	615	30JUL03A	27JAN04	8,069	
ASHE041110	Install Linac Dump Beam Pipes	4	95	605	01DEC03A	07JAN04	3,527	
1.05.14.02	**1.5.14.2 Ring Injection Assembly & Installation**							
1.05.14.02.01	**1.5.14.2.1 Ring Injection Assembly & Install**							
ASRQA03265	IPL - Deliver Ring Injection Kicker Magnets	0	0	529		31DEC03	0	
ASRQA03325	IPL - Deliver Injection Straight Magnets	0	0	644		31DEC03	0	
ASRQA03330	Inspect & InstallRing Inj Straight Magnets	44	0	644	02JAN04*	04MAR04	9,488	
ASRQA03270	Inspect & Install Ring Injection Kicker Magnets	159	0	445	03MAY04*	17DEC04	17,393	
1.05.14.02.02	**1.5.14.2.2 Injection Dump Assembly & Install**							
ASHE041200	Install Injection Dump Beam Pipes	9	58	672	10DEC03A	26JAN04	18,134	
ASDUI01560	IPL - Deliver Injection Dump Magnets	0	0	662		31DEC03	0	
ASDUI01565	Inj Dump - Process Magnets for Installation	4	0	662	02JAN04*	07JAN04	3,436	
ASDUI01020	Install Injection Dump Magnets	3	0	662	08JAN04	12JAN04	3,700	
1.05.14.03	**1.5.14.3 Accelerator Ring**							
1.05.14.03.01	**1.5.14.3.1 Accelerator Ring Installation**							
ASAT000520	Ring Tunnel Building Prep	78	44	520	09MAY03A	02FEB04	25,756	
ASRQA00301	Installation of Arc A	251	6	224	01OCT03A	30SEP04	361,334	
ASRQB03760	Installation of Arc B	112	0	540	02JAN04*	10JUN04	62,363	
ASRS000520	Ring Service Building Prep	141	0	401	02AUG04*	23FEB05	53,767	
ASRQC04270	Installation of Arc C	24	0	224	30SEP04*	02NOV04	62,119	
ASRQD04780	Installation of Arc D	24	0	224	30SEP04*	02NOV04	22,377	
ASATSH0501	Ring Tunnel Shielding	147	0	352	01OCT04*	04MAY05	0	
ASRQA02240	Injection Straight Section	24	0	475	01OCT04*	03NOV04	28,889	
ASRQB04090	Collimator Straight Section	37	0	462	01OCT04*	22NOV04	19,269	
ASRQC10240	Extraction Straight Section	13	0	224	02NOV04	18NOV04	13,732	
ASRQD05110	South Straight Section	146	0	224	02NOV04	03JUN05	56,375	RINGIN



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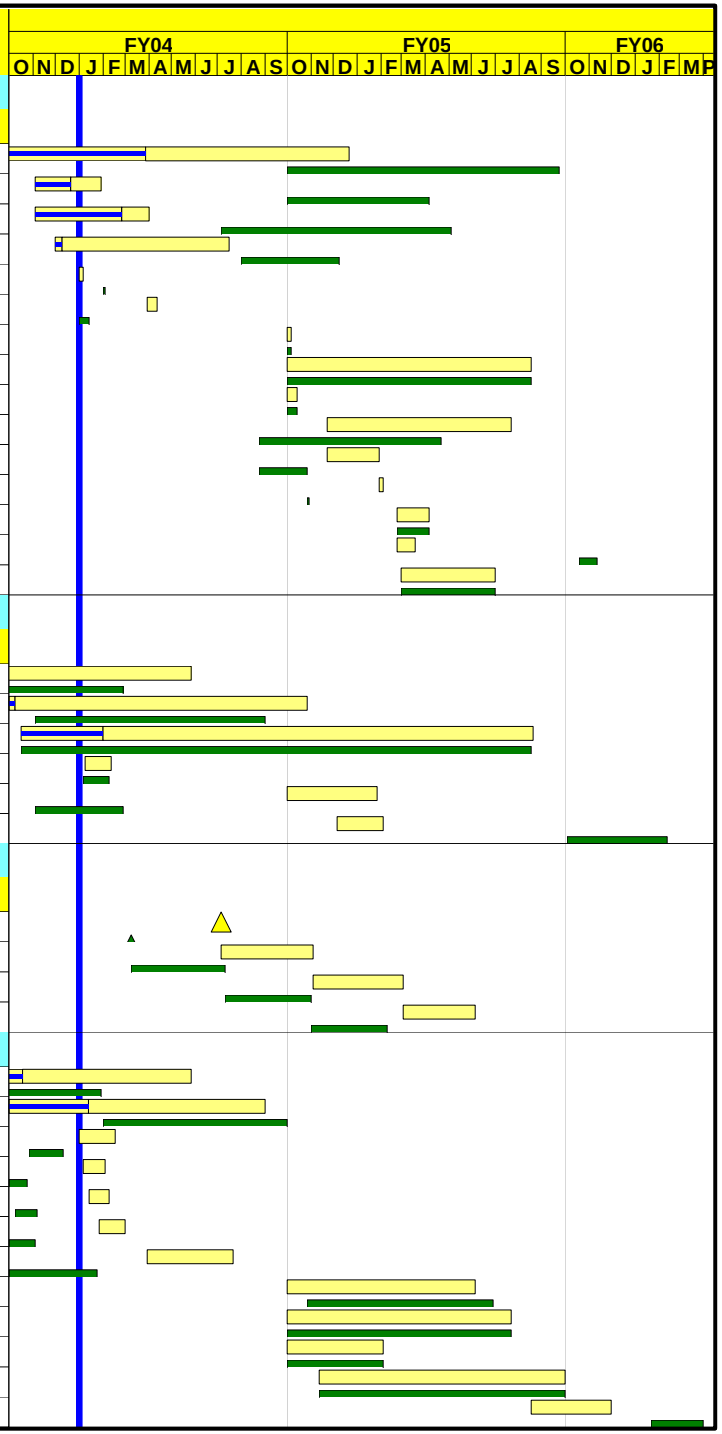
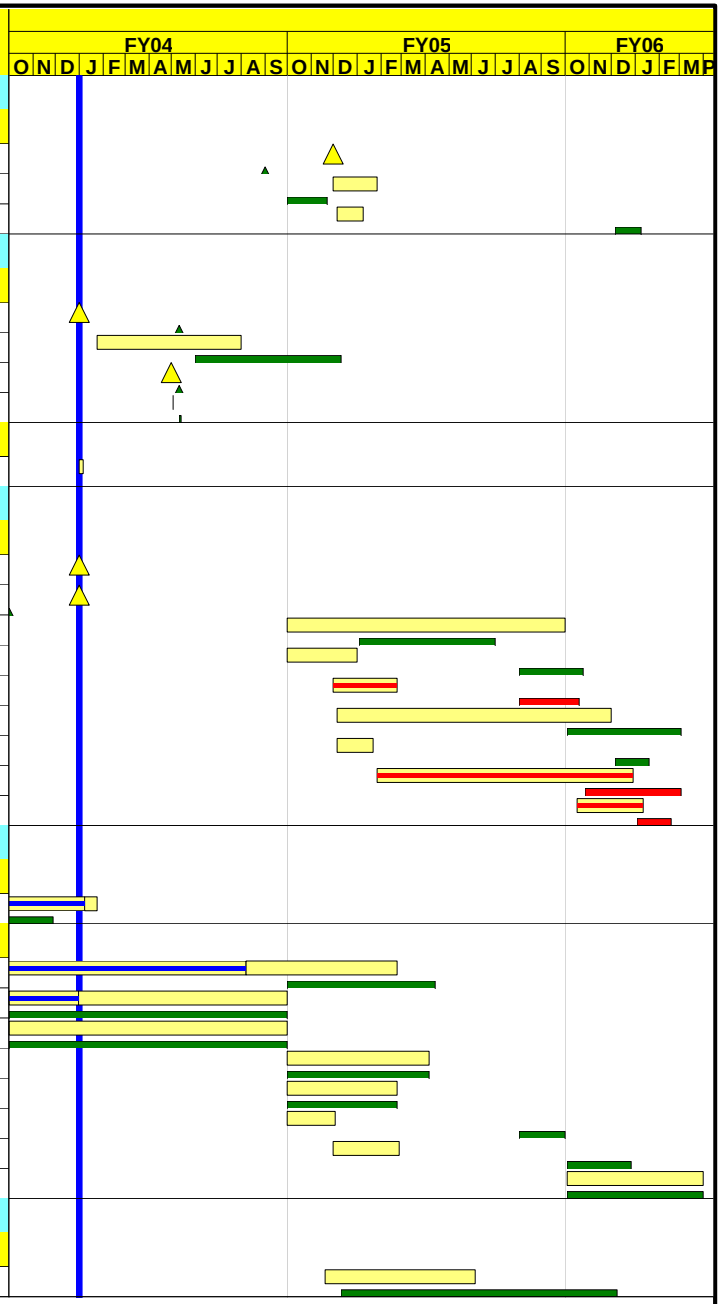
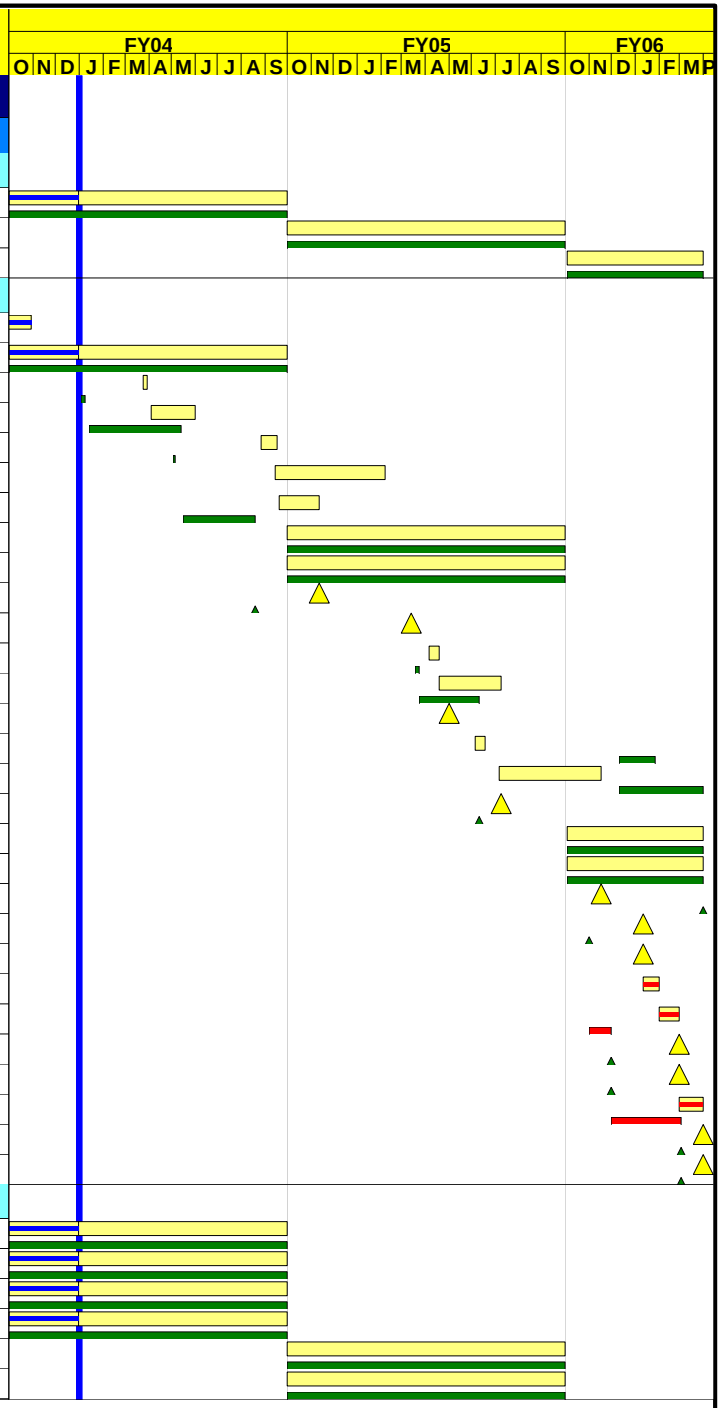
1.05.14.04	**1.5.14.4 Power Supply Assembly & Installation**							
1.05.14.04.01	**1.5.14.4.1 Ring Power Supply Installation**							
ASPS200011	RTBT Power Supply Assembly	245	47	425	01AUG03A	21DEC04	52,059	
ASPS060011	HEBT Power Supply Assembly	126	54	571	03NOV03A	30JAN04	42,250	
ASPS160071	Ring Power Supply Assembly	210	76	552	03NOV03A	31MAR04	65,028	
ASRS010400	Install Ring Power Supplies	98	4	552	01DEC03A	16JUL04	226,134	
ASRS010350	Install Main Ring Dipole Power Supply	3	0	685	02JAN04*	06JAN04	1,283	
ASDUL50120	Linac Dump Power Supply Tests	9	0	561	31MAR04	13APR04	15,118	
ASPS100011	Injection Dump Power Supply Assembly	3	0	496	01OCT04*	05OCT04	1,457	
ASPS890011	Injection Power Supply Assembly	220	0	279	01OCT04*	18AUG05	23,526	
ASRS010210	Install HEBT Power Supplies	10	0	402	01OCT04*	14OCT04	7,765	
ASPS050011	Extraction Dump Power Supply Assembly	163	0	299	23NOV04	21JUL05	2,911	
ASPS750011	Extraction Power Supply Assembly	43	0	416	23NOV04*	28JAN05	47,466	
ASTS011510	Install Extraction Dump Power Supplies	3	0	416	31JAN05	02FEB05	7,934	
ASHS015120	HEBT Svc Bldg Power Supply Installation	29	0	373	23FEB05	05APR05	36,075	
ASRS010300	Install RTBT Power Supplies	18	0	384	23FEB05	18MAR05	7,872	
ASHE050120	HEBT Power Supply Testing	87	0	311	01MAR05*	01JUL05	66,681	
1.05.14.05	**1.5.14.5 Vacuum Assembly & Installation**							
1.05.14.05.01	**1.5.14.5.1 Ring Vacuum Assembly & Installation**							
ASVG002000	Vacuum Assembly in RATS for Ring	249	35	267	03MAR03A	27MAY04	5,676	
ASRI030020	Install Ring Vacuum Systems	207	2	267	01OCT03A	26OCT04	6,661	
ASHE040020	Install HEBT Vacuum Components	459	16	278	16OCT03A	19AUG05	95,892	
ASHE045880	HEBT Vacuum Pumpdown	23	0	605	08JAN04	10FEB04	441	
AS05140501	Residual Gas Analyzer - CANCELLED	79	0	420	01OCT04*	27JAN05	250,071	
ASRT025020	Install RTBT Vacuum Systems	41	0	176	06DEC04	04FEB05	64,268	
1.05.14.06	**1.5.14.6 RF Assembly & Installation**							
1.05.14.06.01	**1.5.14.6.1 Ring RF Assembly & Installation**							
ASRQD05115	IPL - Deliver Ring RF Components	0	0	224		06JUL04	0	
ASRQD05120	Install Ring RF Components	84	0	224	07JUL04	02NOV04	69,841	
ASRQD05130	Ring RF System Test	80	0	224	03NOV04	02MAR05	59,229	
ASRQD05140	Ring RF Integrated Testing	65	0	224	03MAR05	03JUN05	177,660	
1.05.14.07	**1.5.14.7 Ring Diagnostics Assembly & Install**							
ASDG500213	HEBT Diagnostics Assembly	174	38	586	02JUN03A	27MAY04	26,512	
ASHE060100	HEBT Diagnostics Installation	169	31	519	01OCT03A	01SEP04	42,967	
ASAT050120	Ring Tunnel Diagnostics Installation	32	0	656	02JAN04*	17FEB04	49,836	
ASDUE50030	EDMP Diagnostics Installation	18	0	667	07JAN04	02FEB04	7,242	
ASDUI10210	IDMP Diagnostics Installation	19	0	662	13JAN04	09FEB04	8,021	
ASDUL60120	LDMP Diagnostics Installation	24	0	647	28JAN04*	01MAR04	0	
ASHT050020	HEBT Tunnel Diagnostics Installation	77	0	549	31MAR04*	21JUL04	33,197	
ASDG500223	RTBT Diagnostics Assembly	168	0	331	01OCT04*	03JUN05	5,936	
ASDG500229	Ring Diagnostics Assembly	200	0	249	01OCT04*	21JUL05	41,023	
ASTT050020	RTBT Tunnel Diagnostics Installation	83	0	416	01OCT04*	02FEB05	32,591	
ASRI075000	Ring Diagnostics Installation	220	0	249	12NOV04*	30SEP05	129,912	
ASRT060210	RTBT Diagnostics Installation	73	0	208	17AUG05*	30NOV05	31,736	



Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1.05.14.08	**1.5.14.8 Ring Collimation Assembly & Install**							
1.05.14.08.01	**1.5.14.8.1 Ring Collimation Assembly & Install**							
ASRI006810	IPL - Deliver Final Ring Collimator	0	0	421		30NOV04	0	
ASRI006820	Install Ring Collimators	37	0	421	01DEC04*	26JAN05	29,332	
ASRT005060	Install RTBT Collimators	22	0	195	06DEC04	07JAN05	19,507	
1.05.14.09	**1.5.14.9 Ring Extraction Assembly & Installation**							
1.05.14.09.01	**1.5.14.9.1 Ring Extraction Assembly & Install**							
ASRQC04590	IPL - Deliver Ring Extraction Straight Magnets	0	0	302		31DEC03	0	
ASRQC04600	Inspect & Install Extraction Straight Magnets	131	0	302	26JAN04	30JUL04	8,419	
ASRQC04530	IPL - Deliver Extraction Kicker Magnets	0	0	602		30APR04*	0	
ASRQC04540	Inspect & Install Extraction Kicker Magnets	2	0	602	03MAY04	04MAY04	2,806	
1.05.14.09.02	**1.5.14.9.2 Ring Extraction Dump Assembly Install**							
ASDUE01080	Install Extraction Dump Magnets	3	0	667	02JAN04	06JAN04	4,391	
1.05.14.10	**1.5.14.10 RTBT Assembly & Installation**							
1.05.14.10.01	**1.5.14.10.1 Ring RTBT Assembly & Installation**							
ASRT001600	IPL - Deliver RTBT Magnets	0	0	348		31DEC03	0	
ASTS001015	IPL - BOD RTBT Svc Bldg	0	0	230		31DEC03	0	
ASRT001605	RTBT - Process Magnets for Installation	250	0	249	01OCT04*	30SEP05	97,302	
ASTT000520	RTBT Tunnel Building Prep	61	0	176	01OCT04*	30DEC04	2,482	
ASTS001020	RTBT Svc Building Prep	56	0	0	01DEC04*	22FEB05	24,115	
ASRT001080	Install RTBT Lattice Components	247	0	176	06DEC04	30NOV05	66,540	
ASTTSH0501	RTBT Tunnel Shielding	30	0	425	06DEC04	20JAN05	51,529	
ASTS010210	Install RTBT Technical Components	234	0	0	26JAN05	30DEC05	63,130	
ASRT050120	RTBT Integrated Systems Testing	57	0	0	18OCT05	11JAN06	116,807	RTBTIN
1.05.14.11	**1.5.14.11 Ring AC Distribution, Trays and Cables**							
1.05.14.11.01	**1.5.14.11.1 Buss**							
ASAT003620	Install Main Ring Copper Buss	20	93	673	02JUN03A	23JAN04	26,551	
1.05.14.11.02	**1.5.14.11.2 Ring AC Cables & Racks**							
ASRS002020	Ring Service Building AC Distribution	131	63	403	01SEP03A	21FEB05	835,344	
AS051SFY04	Ring AC Cables & Racks Support FY04	251	25	499	01OCT03A	30SEP04	299,409	
ASDC00FY04	Ring DC Cabling Installation FY04	251	0	499	01OCT03A	30SEP04	528,850	
AS05112041	AC Cables & Racks Procurements FY05	126	0	373	01OCT04*	05APR05	96,206	
ASHS002060	HEBT Svc Bldg AC Distr/Tray/Cable Install	97	0	279	01OCT04*	22FEB05	7,695	
ASTT002520	RTBT Tunnel AC Power Distr/Tray/Cables	44	0	176	01OCT04	03DEC04	63,876	
ASTS002040	RTBT AC Power Distr/Tray/Cables	58	0	26	01DEC04	24FEB05	210,039	
AS05113041	AC Cables & Racks Procurements FY06	123	0	126	03OCT05*	30MAR06	34,831	
1.05.14.13	**1.5.14.13 Ring Systems Integrated Testing**							
1.05.14.13.01	**1.5.14.13.1 Ring Systems Integrated Testing**							
ASRI050220	Ring Integrated Systems Testing	133	0	224	19NOV04	03JUN05	436,858	



Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1.10 1.10 Pre-Operations								
1.10.02 1.10.2 ASD Pre-Operations								
1.10.02.01 1.10.2.1 Management Group								
AS10027108	Accelerator Division Mgt Support - FY04	251	25	126	01OCT03A	30SEP04	1,544,871	
AS10027110	Accelerator Division Mgt Support - FY05	250	0	126	01OCT04*	30SEP05	1,519,125	
AS10027112	Accelerator Division Mgt Support - FY06	123	0	126	03OCT05*	30MAR06	864,932	
1.10.02.02 1.10.2.2 Operations Group								
AS10041220	DTL tank 1 Commissioning (inc. D-plate)	31	100		22AUG03A	30OCT03A	0	DTL100
AS10027130	Commissioning Support - FY04	251	25	126	01OCT03A	30SEP04	1,231,065	
ASOP000012	DTL tanks 1-3 mini readiness review	4	0	584	24MAR04*	29MAR04	0	DTL075
ASOP000003	DTL 1-3 tanks Commissioning	39	0	584	06APR04	31MAY04	0	DTL065
AS10041228	ARR DTL tanks 4-6 & CCL modules 1-3	15	0	220	27AUG04	17SEP04	0	DTL110
AS10041259	SC System Test without beam (cooldown & cond)	98	0	413	15SEP04*	07FEB05	0	SC310
AS10041270	Commission DTL tanks 4-6 & CCL modules 1-3	39	0	220	20SEP04*	11NOV04	0	CCL240
AS10027133	Commissioning Support - FY05	250	0	126	01OCT04*	30SEP05	1,960,546	
AS10027138	Linac Spares FY05	250	0	126	01OCT04*	30SEP05	2,044,644	
AS10041275	IPL - Beam Available from CCL 1-3 to CCL4 & SC	0	0	220		11NOV04	0	CCL255
AS10041249	SRF Operational	0	0	389		11MAR05*	0	SC315
AS10041229	CCL module 4 & SCL ARR	9	0	308	06APR05	18APR05	0	SC300
ASOP000011	CCL module 4 & SCL Commissioning	56	0	308	19APR05	08JUL05	0	SC325
AS10041239	SC - Start system test with beam (1st beam)	0	0	354	03MAY05*		0	SC320
AS10041290	ARR for HEBT-Ring-RTBT to Ext Dump	10	0	224	06JUN05	17JUN05	0	HEBT157
AS10041300	HEBT-Ring-RTBT to Ext Dump Commissioning	97	0	214	06JUL05*	18NOV05	0	HEBT290
AS10041288	IPL - Ops Complete SC Commissioning	0	0	308		08JUL05	0	SC330
AS10027134	Commissioning Support - FY06	123	0	126	03OCT05*	30MAR06	1,260,954	
AS10027139	Linac Spares FY06	123	0	126	03OCT05	30MAR06	2,284,967	
AS10041335	HEBT & Ring - Beam available to RTBT & XDump	0	0	214		18NOV05	0	HEBT295
AS10041345	IPL - Start RTBT - Target Commissioning	0	0	181	12JAN06		0	
AS10041395	Full RTBT ready for beam	0	0	0	12JAN06		0	RTBTIN5
AS10041405	RTBT to Target ARR	12	0	0	13JAN06	31JAN06	0	RTBT410
AS10041355	Perform RTBT - Target Commissioning	20	0	0	01FEB06	28FEB06	0	
AS10041365	IPL - OPs Complete RTBT - Target	0	0	0		28FEB06	0	
AS10041370	IPL - Start Operational Readiness Review	0	0	0	01MAR06		0	
AS10041375	Perform Operational Readiness Review	22	0	0	01MAR06	30MAR06	0	
AS10041380	IPL - Complete Prj Acpt Tst/ORR (365 - PEP)	0	0	0		30MAR06	0	
AS10041385	IPL - OPs Commissioning Complete	0	0	0		30MAR06	0	OPC08
1.10.02.03 1.10.2.3 Accelerator Physics Group								
AS10027178	Coordinate-Support Physics Design - FY04	251	25	126	01OCT03A	30SEP04	496,098	
AS10027184	Prep/Commission/Operate FE & Linac FY04	251	25	126	01OCT03A	30SEP04	674,561	
AS10027190	Prep/Commission/Operate Ring Syst FY04	251	25	126	01OCT03A	30SEP04	370,875	
AS10027196	Complete/Test DB & Beam App Codes FY04	251	25	126	01OCT03A	30SEP04	545,218	
AS10027179	Coordinate-Support Physics Design - FY05	250	0	126	01OCT04*	30SEP05	510,369	
AS10027185	Prep/Commission/Operate FE & Linac FY05	250	0	126	01OCT04*	30SEP05	563,726	



Activity ID	Activity Description	Orig Dur	%	Total Float	Early Start	Early Finish	Budgeted Cost	ACID
1.10.02.03	**1.10.2.3 Accelerator Physics Group**							
AS10027191	Prep/Commission/Operate Ring Syst FY05	250	0	126	01OCT04	30SEP05	662,314	
AS10027197	Complete/Test DB & Beam App Codes FY05	250	0	126	01OCT04	30SEP05	555,894	
AS10027180	Coordinate-Support Physics Design - FY06	123	0	126	03OCT05*	30MAR06	278,668	
AS10027186	Prep/Commission/Operate FE & Linac FY06	123	0	126	03OCT05*	30MAR06	304,674	
AS10027192	Prep/Commission/Operate Ring Syst FY06	123	0	126	03OCT05	30MAR06	288,336	
AS10027198	Complete/Test DB & Beam App Codes FY06	123	0	126	03OCT05	30MAR06	288,336	
1.10.02.04	**1.10.2.4 Accelerator Technology Groups**							
1.10.02.04.01	**1.10.2.4.1 Linac RF Group**							
AS10020405	RF Group FY05 Activities	250	0	249	01OCT04*	30SEP05	418,572	
1.10.02.04.02	**1.10.2.4.2 Ion Source Group**							
AS10247504	Ion Source FY04 Activity	251	25	249	01OCT03A	30SEP04	598,446	
AS10247505	Ion Source FY05 Activity	250	0	249	01OCT04	30SEP05	491,676	
1.10.02.04.03	**1.10.2.4.3 Cryosystems Group**							
AS10020326	Cryosystems Group FY04 Activities	251	25	126	01OCT03A	30SEP04	886,952	
AS10020328	Cryosystems Groups FY05 Activities	250	0	126	01OCT04	30SEP05	1,327,985	
AS10020338	Cryogens	373	0	126	01OCT04	30MAR06	796,215	
AS10020348	Cryosystems Group FY06 Activities	123	0	126	03OCT05	30MAR06	798,222	
1.10.02.04.04	**1.10.2.4.4 Power Supply Group**							
AS10128517	Power Supply Group FY04 Activities	251	25	249	01OCT03A	30SEP04	159,794	
AS10128518	Power Supply Group FY05 Activities	250	0	249	01OCT04	30SEP05	164,438	
1.10.02.04.05	**1.10.2.4.5 Mechanical Group**							
AS10020410	Mech Eng Group FY04 Activities	251	25	249	01OCT03A	30SEP04	1,269,021	
AS10020412	Mech Eng Group FY05 Activities	250	0	249	01OCT04	30SEP05	1,971,836	
AS10027209	Mech Eng Group FY06	123	0	126	03OCT05*	30MAR06	1,285,791	
1.10.02.04.06	**1.10.2.4.6 Survey & Alignment Group**							
AS10127509	Survey & Alignment FY04 Activty	251	25	249	01OCT03A	30SEP04	564,519	
AS10127510	Survey & Alignmen FY05 Activity	250	0	249	01OCT04	30SEP05	1,155,371	
1.10.02.04.07	**1.10.2.4.7 Diagnostics Group**							
AS10127506	Diagnostics FY04 Activity	251	25	249	01OCT03A	30SEP04	494,998	
AS10127507	Diagnostic FY05 Activity	250	0	249	01OCT04	30SEP05	533,767	
1.10.02.05	**1.10.2.5 Controls Group**							
AS10027202	Controls Support to Commissioning FY04	251	25	126	01OCT03A	30SEP04	873,417	
AS10027203	Controls Support to Commissioning FY05	250	0	126	01OCT04	30SEP05	898,723	
AS10027204	Controls Support to Commissioning FY06	123	0	126	03OCT05	30MAR06	2,385,605	