



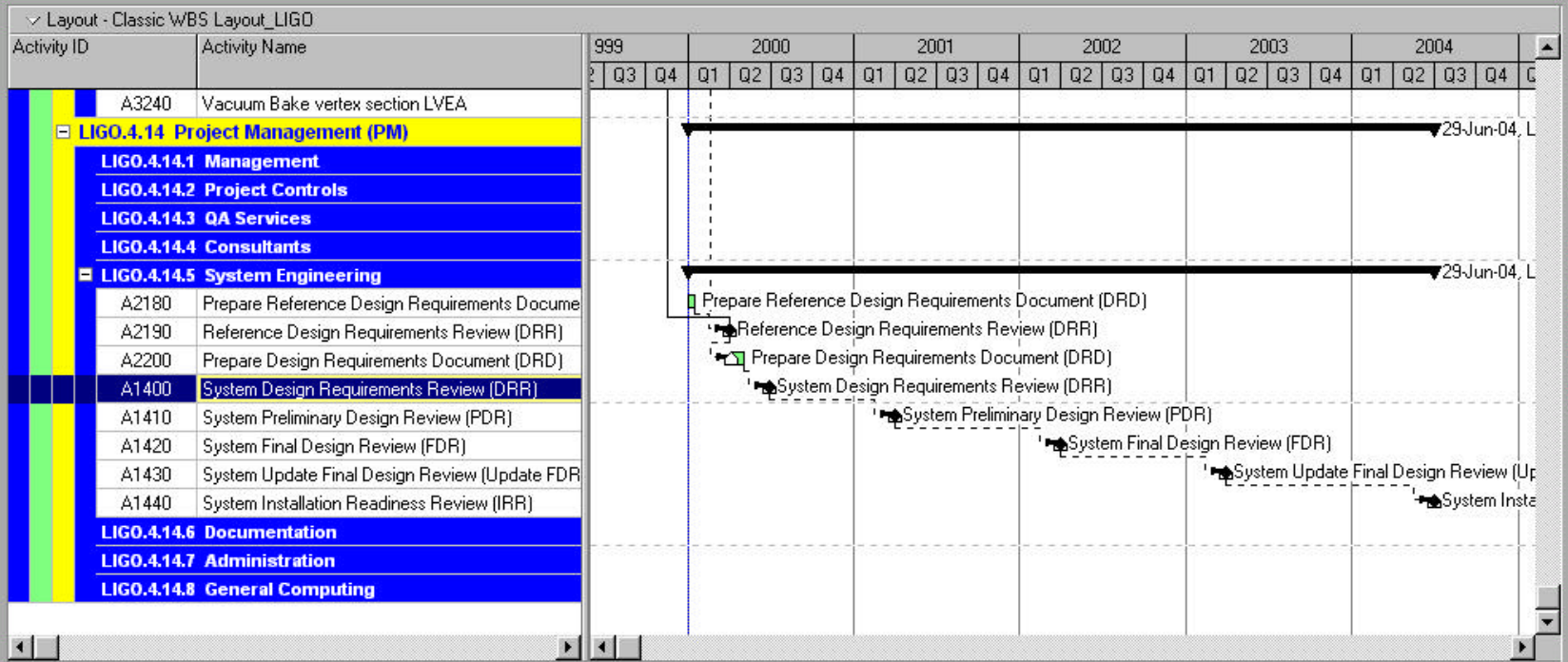
Milestones for Lasers and Optics

Gary Sanders
LSC Meeting - LLO
March 2000

Activities

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Activity ID Activity Name



General Status Resources Predecessors Successors Actv Codes/Roles Notebooks Steps Feedback Ref Docs Expenses Summary

Activity: A1400 System Design Requirements Review (DRR) Project: LIGO_Lab

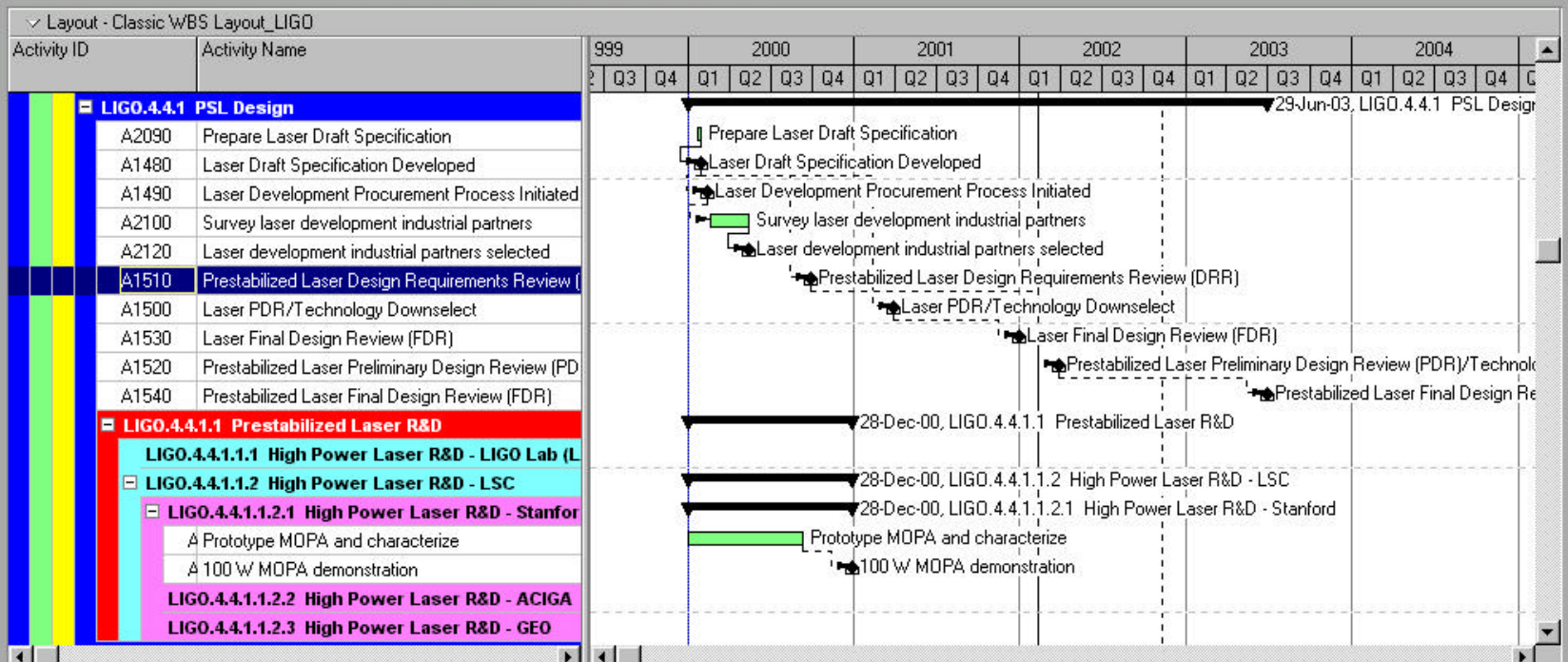
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At Cmpl	0.0d	Total Float		Constr Date	30-Jun-00	

Labor Units: Budgeted 0h, Actual 0h, Remaining 0h, At Cmpl 0h

Activities

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Layout - Classic WBS Layout_LIGO



General Status Resources Predecessors Successors Actv Codes/Roles Notebooks Steps Feedback Ref Docs Expenses Summary

Activity: A1510 Prestabilized Laser Design Requirements Review (DRR) Project: LIGO_Lab

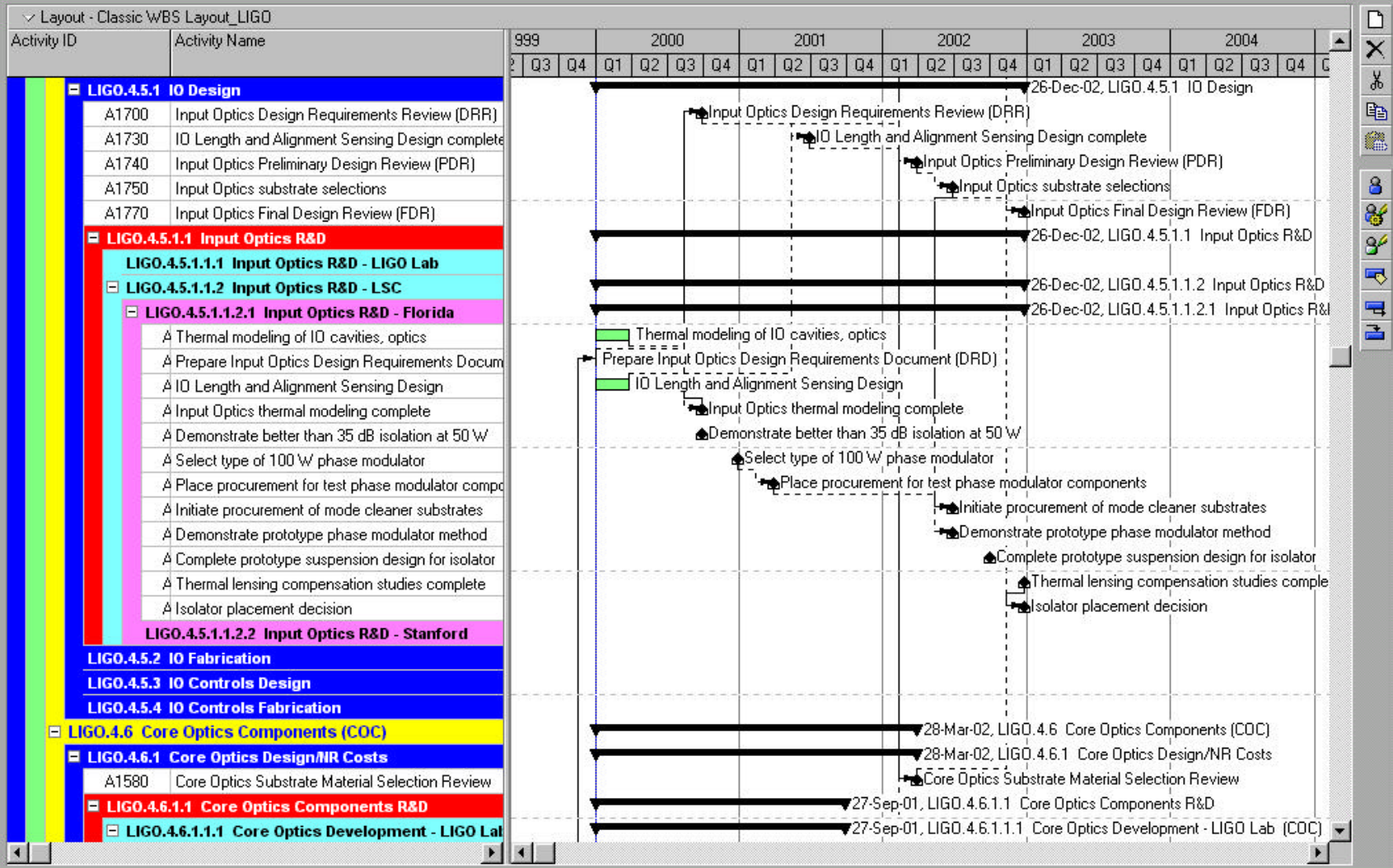
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Remaining	0.0d	Free Float			Constraint	Start On or After
At Cmpl	0.0d	Total Float			Constr Date	29-Sep-00

Labor Units
 Budgeted: 0h
 Actual: 0h
 Remaining: 0h
 At Cmpl: 0h

Activities

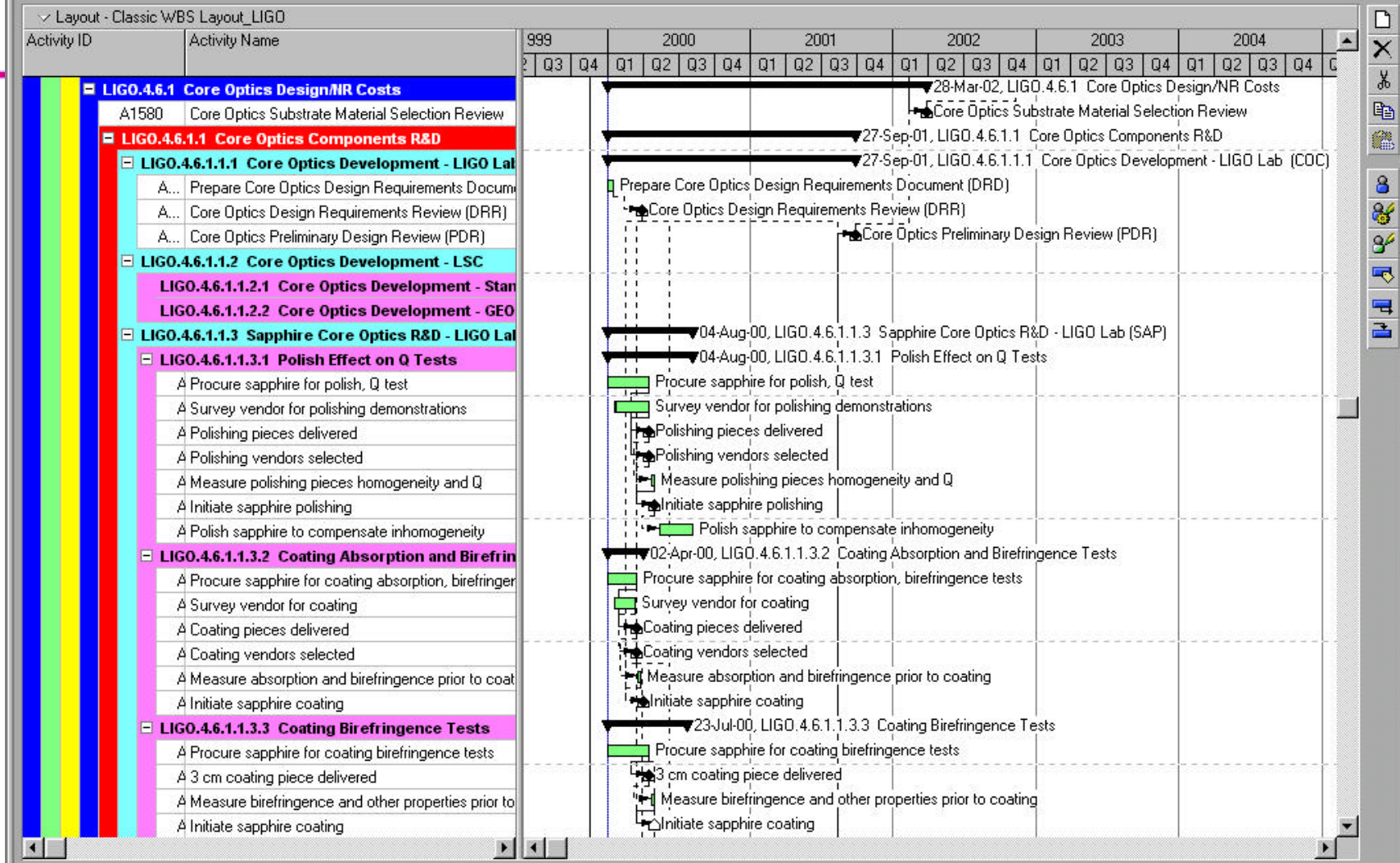
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Layout - Classic WBS Layout_LIGO



Activities

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Activities

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Layout - Classic WBS Layout_LIGO

Activity ID	Activity Name	999	2000				2001				2002				2003				2004				
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
	LIGO.4.6.1.1.3.3 Coating Birefringence Tests																						
	A Procure sapphire for coating birefringence tests																						
	A 3 cm coating piece delivered																						
	A Measure birefringence and other properties prior to coating																						
	A Initiate sapphire coating																						
	A 25 cm coating piece delivered																						
	A Measure birefringence and other properties prior to coating																						
	A Initiate sapphire coating																						
	LIGO.4.6.1.1.3.4 SIOM Crystal Growth Development																						
	A Prepare samples through sample 31																						
	A Onsite performance review																						
	LIGO.4.6.1.1.4 Sapphire Core Optics R&D - LSC																						
	LIGO.4.6.1.1.4.1 Coating Effect on Q Tests																						
	A Procure sapphire for coating effect on Q tests																						
	A Coating pieces delivered																						
	A Measure Q, other properties prior to coating																						
	A Initiate sapphire coating																						
	LIGO.4.6.1.1.4.2 Absorption Dependence Upon Materials and Origin Tests																						
	A Procure sapphire for absorption vs. materials tests																						
	A Measure bulk absorption using PCI interferometer																						
	LIGO.4.6.2 Core Optics Fabrication																						
	LIGO.4.7 Support Optics (SOS)																						
	LIGO.4.7.1 Output Optics (OO)																						
	LIGO.4.7.1.1 Output Optics Design																						
	LIGO.4.7.1.2 Output Optics Fabrication																						
	LIGO.4.7.2 Stray Light Control (SLC)																						
	LIGO.4.7.2.1 Stray Light Control Design																						
	LIGO.4.7.2.2 Stray Light Control Fabrication																						
	LIGO.4.7.3 Active Optics Compensation (AOC)																						
	LIGO.4.7.3.1 Active Optics Compensation Design																						
	LIGO.4.7.3.1.1 Active Optics Compensation R&D																						

Activities

Navigation icons: Back, Next, Home, Dir., Hint, Help

Activity icons: Gantt, PERT, WBS, etc.

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Activity ID	Activity Name	1999				2000				2001				2002				2003				2004			
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
999	LIGO.4.7.3 Active Optics Compensation (AOC)																								
	LIGO.4.7.3.1 Active Optics Compensation Design																								
	LIGO.4.7.3.1.1 Active Optics Compensation R&D																								
	LIGO.4.7.3.1.1.1 Active Optics Compensation R&D - LIGO Lab (AOP)																								
	Initial compensation experiments complete																								
	Sapphire compensation tests complete																								
	LIGO.4.7.3.1.1.2 Active Optics Compensation R&D - LSC																								
	LIGO.4.7.3.1.1.2.1 Active Optics Compensation R&D - Stanford																								
	Thermal modeling of LIGO II interferometer optical cavities																								
	Thermal modeling of core optics response complete																								
	LIGO.4.7.3.1.1.2.2 Active Optics Compensation R&D - LIGO Lab (AOP)																								
	LIGO.4.7.3.2 Active Optics Fabrication																								
	LIGO.4.7.3.3 Active Optics Compensation Controls Design																								
	LIGO.4.7.3.4 Active Optics Compensation Controls Design																								
	LIGO.4.8 Interferometer Sensing and Control (ISC)																								
	LIGO.4.8.1 Interferometer Sensing & Control R&D																								
	LIGO.4.8.1.1 Controls Configuration R&D																								
	LIGO.4.8.1.2 Resonant Sideband Extraction R&D (RSE)																								
	A2350 Sensing and Control Conceptual Design Review																								

Activity: A1670 Initial compensation experiments complete

Project: LIGO_Lab

Planned	0.0d	Status	<input type="checkbox"/> Started	31-Mar-00	Duration %	0%
Actual	0.0d	<input type="checkbox"/> Finished	31-Mar-00	Exp Finish		
Remaining	0.0d	Free Float		Constraint	Start On or After	
At Cmplt	0.0d	Total Float		Constr Date	31-Mar-00	

Labor Units:

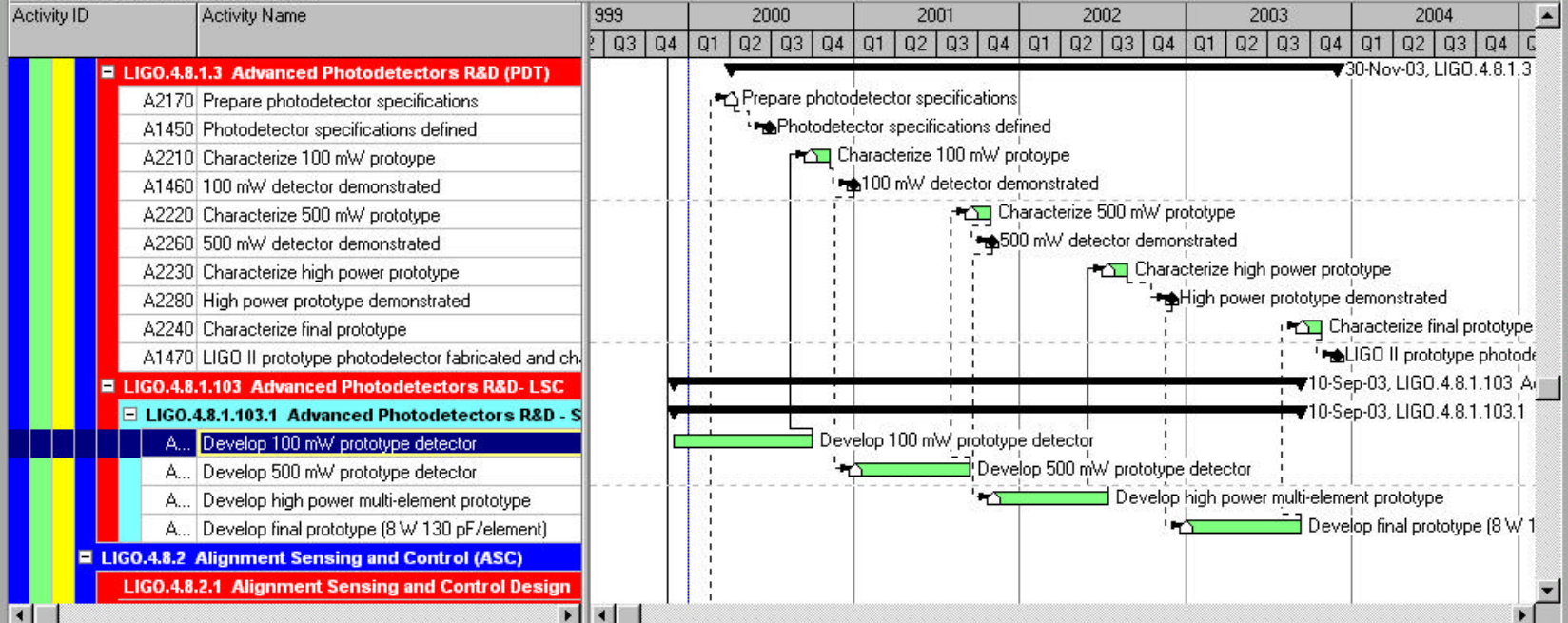
Budgeted	0h
Actual	0h
Remaining	0h
At Cmplt	0h

Activities

Navigation icons: Back, First, Home, Dir., Hint, Help

Activity icons: Gantt, PERT, WBS, etc.

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Activity Detail Panel for Activity A1850: Develop 100 mW prototype detector

Activity	A1850	Develop 100 mW prototype detector	Project	LIGO_Lab
Planned	180.0d	Status	<input checked="" type="checkbox"/> Started	01-Dec-99
Actual	0.0d	Physical %		0%
Remaining	218.0d	Exp Finish	<input type="checkbox"/> Finished	29-Sep-00
At Cmplt	218.0d	Free Float		
		Total Float		
		Constraint		
		Constr Date		
		Labor Units	Budgeted	0h
			Actual	0h
			Remaining	1744h
			At Cmplt	1744h