	st - 2019-05 (Status Review)				ra - Longest						18-Jul-19 12:2
Activity ID	Activity Name	Global_M Levels	Total Float	Duration	Start	Finish	Activity % Complete		Nonlabor 019 Units A	JJA	FY2020 FY202
LSST F	orecast - B57 - B1 LSST Foreca	st - 201	19-05 (St	atus R	eview)						
CRYO70165	Final Assy & Test - Cold System Verification Test		-18	40	01-May-18 A	07-Jun-19	80%	260	0	Fina	al Assy & Test - Cold System Veri
ITC31820	ETU EO/BOT Testing		-18	10	01-Apr-19 A	07-Jun-19	50%	281	0	ΕT	U EO/BOT Testing
CRYO646240	Test Individual Circuits - 4 Cryo (15 d)		-18	13	12-May-19 A	07-Jun-19	50%	0	0	Tes	t Individual Circuits - 4 Cryo (15
CRYO70185	Analyze Data - Cold System Verification Test		-18	8	20-May-19 A	07-Jun-19	50%	40	0 1	Ana	alyze Data - Cold System Verificat
CRYO02825	COMP: Cryostat Chamber & I&T Refrigeration System Ready for Integration	L3	-18	0		07-Jun-19	0%	0	0	o co	MP: Cryostat Chamber & I&T Re
CRYO70205	COMP: Cold System Verification Test	L4	-18	0		07-Jun-19	0%	0	0	o co	MP: Cold System Verification Tes
CRYO61685_	AVAIL: Cryostat Assembly with Refrigeration for Integration (4 Cryo)	L5	-18	0		07-Jun-19	0%	0	0	◆ AVA	AIL: Cryostat Assembly with Refri
ITC31835	NEED: Completion of Run Single-Circuit Cryo/Cold System Tests (4 Cryo)	L5	-18	0		07-Jun-19	0%	0	0	♦ NEI	ED: Completion of Run Single-Cir
CRYO646250	AVAIL: Cryostat Assembly with Refrigeration for Integration (4 Cryo)	L5	-18	0		07-Jun-19	0%	0	0	◆ AVA	AIL: Cryostat Assembly with Refri
ITC31820_1	ETU De-integration		-18	12	10-Jun-19	25-Jun-19	0%	238	0	■ ET	U De-integration
ITC00290	START: Science Raft Tower Integration	L3	-18	0		25-Jun-19	0%	0	0	♦ ST	ART: Science Raft Tower Integra
ITC31840	START: Science Raft Tower Integration	L4	-18	0		25-Jun-19	0%	0	0	◆ ST	ART: Science Raft Tower Integra
ITC31830	AVAIL: Eng Raft Tower from I&T for ComCam	L5	-18	0		25-Jun-19	0%	0	0	◆ AV	AIL: Eng Raft Tower from I&T for
ITC31860	Integrate Science Raft Tower #1 of 21		-18	4	26-Jun-19	01-Jul-19	0%	0	0	I In	tegrate Science Raft Tower #1 of
ITC31860_R	Integrate Science Raft Tower #1 of 21		-18	4	26-Jun-19	01-Jul-19	0%	103	0	I In	tegrate Science Raft Tower #1 of
ITC31880	Integrate Science Raft Tower #2 of 21		-18	4	02-Jul-19	08-Jul-19	0%	102	0	I In	ntegrate Science Raft Tower #2 o
ITC31920	Integrate Science Raft Tower #3 of 21		-18	4	09-Jul-19	12-Jul-19	0%	104	0	l Ir	ntegrate Science Raft Tower #3 o
ITC31940	Integrate Science Raft Tower #4 of 21		-18	2	15-Jul-19	16-Jul-19	0%	59	0	I li	ntegrate Science Raft Tower #4 o
ITC31960	Integrate Science Raft Tower #5 of 21		-18	2	17-Jul-19	18-Jul-19	0%	59	0	1 1	ntegrate Science Raft Tower #5
ITC31980	Integrate Science Raft Tower #6 of 21		-18	2	19-Jul-19	22-Jul-19	0%	59	0		ntegrate Science Raft Tower #6
ITC32225	Integrate Corner Raft Tower #1 of 4		-18	4	23-Jul-19	26-Jul-19	0%	119	0		Integrate Corner Raft Tower #1 o
	maining Level of Effort Actual Work ual Level of Effort Remaining Wo	rk 🔷	Critical F Mileston	Remaining	Work			Page 1	of 5	TA	ASK filters: Critical, WBS. © Oracle Corporation

LSST Fored	cast - 2019-05 (Status Review)		LS	SST Came	era - Longest	Path to CD4				18-Jul-19 12:21				
Activity ID	Activity Name	Global_M Levels	Total Float	Duration	Start	Finish	Activity % Complete	Labor Units	Nonlabor 01 Units A					
ITC32230	Integrate Corner Raft Tower #2 of 4		-18	4	29-Jul-19	01-Aug-19	0%	119	0	Integrate Corner Raft Tower #2 of 4				
ITC32290	Integrate Corner Raft Tower #3 of 4		-18	4	02-Aug-19	07-Aug-19	0%	118	0	Integrate Corner Raft Tower #3 of				
ITC32410	Integrate Corner Raft Tower #4 of 4		-18	2	08-Aug-19	09-Aug-19	0%	118	0	I Integrate Corner Raft Tower #4 of				
ITC32000	Integrate Science Raft Tower #7 of 21		-18	2	12-Aug-19	13-Aug-19	0%	59	0	I Integrate Science Raft Tower #7 of				
ITC32020	Integrate Science Raft Tower #8 of 21		-18	2	14-Aug-19	15-Aug-19	0%	59	0	I Integrate Science Raft Tower #8 of				
ITC32040	Integrate Science Raft Tower #9 of 21		-18	2	16-Aug-19	19-Aug-19	0%	59	0	I Integrate Science Raft Tower #9 of				
ITC32140	BOT Testing with Raft Tower #1-9		-18	38	20-Aug-19	11-Oct-19	0%	517	0	BOT Testing with Raft Tower #				
ITC00300	COMP: Integration of 9 SR into Cryostat	L3	-18	0		11-Oct-19	0%	0	0	◆ COMP: Integration of 9 SR into				
ITC32160	COMP: Integration of 9 SR into Cryostat	L4	-18	0		11-Oct-19	0%	0	0	◆ COMP: Integration of 9 SR into				
ITC32180	Integrate Science Raft Tower #10 of 21		-18	6	14-Oct-19	21-Oct-19	0%	147	0	I Integrate Science Raft Tower ≠				
ITC32200	Integrate Science Raft Tower #11 of 21		-18	2	22-Oct-19	23-Oct-19	0%	59	0	I∷Integrate Science Raft:Tower #				
ITC32220	Integrate Science Raft Tower #12 of 21		-18	2	24-Oct-19	25-Oct-19	0%	59	0	I Integrate Science Raft Tower				
ITC32240	Integrate Science Raft Tower #13 of 21		-18	2	28-Oct-19	29-Oct-19	0%	59	0	I Integrate Science Raft Tower				
ITC32260	Integrate Science Raft Tower #14 of 21		-18	2	30-Oct-19	31-Oct-19	0%	59	0	I Integrate Science Raft Tower				
ITC32280	Integrate Science Raft Tower #15 of 21		-18	2	01-Nov-19	04-Nov-19	0%	59	0	Integrate Science Raft Tower				
ITC32300	Integrate Science Raft Tower #16 of 21		-18	2	05-Nov-19	06-Nov-19	0%	59	0	Integrate Science Raft Tower				
ITC32320	Integrate Science Raft Tower #17 of 21		-18	2	07-Nov-19	08-Nov-19	0%	59	0	I Integrate Science Raft Tower				
ITC32340	Integrate Science Raft Tower #18 of 21		-18	2	11-Nov-19	12-Nov-19	0%	59	0	I Integrate Science Raft Tower				
ITC32360	Integrate Science Raft Tower #19 of 21		-18	2	13-Nov-19	14-Nov-19	0%	59	0	I Integrate Science Raft Tower				
ITC32380	Integrate Science Raft Tower #20 of 21		-18	2	15-Nov-19	18-Nov-19	0%	59	0	I Integrate Science Raft Towe				
ITC32400	Integrate Science Raft Tower #21 of 21		-18	2	19-Nov-19	20-Nov-19	0%	59	0	I Integrate Science Raft Towe				
ITC32420	BOT Testing with Raft Tower #1-21+4CR		-18	38	21-Nov-19	30-Jan-20	0%	517	0	BOT Testing with Raft;T				
		orner Raft Tower #4 of 4 ience Raft Tower #7 of 21 ience Raft Tower #8 of 21 ience Raft Tower #9 of 21 ience Raft Tower #9 of 21 ience Raft Tower #1-9 ience Raft Tower #1-9 ience Raft Tower #1-9 ience Raft Tower #10 of 21 ience Raft Tower #10 of 21 ience Raft Tower #11 of 21 ience Raft Tower #12 of 21 ience Raft Tower #13 of 21 ience Raft Tower #14 of 21 ience Raft Tower #15 of 21 ience Raft Tower #16 of 21 ience Raft Tower #16 of 21 ience Raft Tower #18 of						Page 2 of 5 TASK filters: Critical, WE						

LSST Forecast - 2019-05 (Status Review)		LSST Camera - Longest Path to CD4							N	18-Jul-19 12:21			
Activity ID	Activity Name	Global_M Levels	Total Float	Duration	Start	Finish	Activity % Complete	Labor Units	Nonlabor 019 Units	FY2020 FY2021			
ITC00330	START: Integrated Cryostat Testing	L3	-18	0		21-Nov-19	0%	0	0	◆ START: Integrated Cryostat			
ITC32415	START: Final Integrated Cryostat Testing	L4	-18	0	21-Nov-19		0%	0	0	◆ START: Final Integrated Cry			
ITC00335	COMP: I&T of Loaded Cryostat (21 SR+4 CR)	L3	-18	0		30-Jan-20	0%	0	0	◆ COMP: I&T of Loaded			
ITC32460	NEED: L3 Lens Assembly	L5	-18	0		30-Jan-20	0%	0	0	♦ NEED: L3 Lens Assem			
ITC32440	COMP: I&T of Loaded Cryostat (21 SR+4 CR)	L4	-18	0		30-Jan-20	0%	0	0	◆ COMP: I&T of Loaded			
ITC32480	Mount L3 Lens Assembly		-18	8	31-Jan-20	11-Feb-20	0%	65	0	■ Mount L3 Lens Assem			
ITC32500	NEED: Utility Trunk	L5	-18	0		11-Feb-20	0%	0	0	♦ NEED: Utility Trunk			
ITC32520	NEED: Camera purge unit	L5	-18	0		11-Feb-20	0%	0	0	◆ NEED: Camera purge			
ITC32540	NEED: UT cooling system	L5	-18	0		11-Feb-20	0%	0	0	◆ NEED: UT cooling sys			
ITC32580	NEED: UT Aux Electronics	L5	-18	0		11-Feb-20	0%	0	0	◆ NEED: UT Aux Electro			
ITC32565	NEED: Diagnostic Cluster from CCS	L5	-18	0		11-Feb-20	0%	0	0	◆ NEED: Diagnostic Clus			
ITC32590	NEED: Cryostat Lift Fixture for Cryostat I&T	L5	-18	0		11-Feb-20	0%	0	0	♦ NEED: Cryostat Lift Fix			
ITC32510	NEED: Vacuum Purge	L5	-18	0		11-Feb-20	0%	0	0	◆ NEED: Vacuum Purge			
ITC32530	NEED: Cryostat Handling Equipment	L5	-18	0		11-Feb-20	0%	0	0	◆ NEED: Cryostat Handl			
ITC32570	NEED: Controls for Utility Trunk	L5	-18	0		11-Feb-20	0%	0	0	◆ NEED: Controls for Uti			
ITC32620	Mount and Populate Utility Trunk		-18	40	12-Feb-20	08-Apr-20	0%	767	0	Mount and Populate			
ITC00340	COMP: Cryostat and UT Assembled	L3	-18	0		08-Apr-20	0%	0	0	◆ COMP: Cryostat a			
ITC19850	NEED: Loaded Cryostat	L5	-18	0		08-Apr-20	0%	0	0	◆ NEED: Loaded Cr			
ITC32660	AVAIL: Loaded Cryostat Ready for Integration	L5	-18	0		08-Apr-20	0%	0	0	◆ AVAIL: Loaded Cry			
ITC19852	NEED: Camera Handling Equipment Ready for Camera I&T	L5	-18	0		08-Apr-20	0%	0	0	◆ NEED: Camera Ha			
ITC19900	Camera / Cryostat Integration		-18	30	09-Apr-20	20-May-20	0%	518	0	Camera / Cryos			
ITC20000	NEED: L1-L2 Assembly	L5	-18	0		20-May-20	0%	0	0	♦ NEED: L1-L2 As			
Remaining Level of Effort Actual Work Actual Level of Effort Remaining Work Milestone									of 5	TASK filters: Critical, WBS. © Oracle Corporation			

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LSST Foreca	ast - 2019-05 (Status Review)		LS	SST Came	era - Longest	Path to CD4					18-Jul-19 12:2		
Activity ID	Activity Name	Global_M Levels	Total Float	Duration	Start	Finish	Activity %	Labor Units	Nonlabor 019 Units All		2020 FY202		
							Complete		7 1		A JJAS VD		
TC00450	COMP: Cryostat Integrated Into Camera Body	L3	-18	0		20-May-20	0%	0	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	◆ COMP: Cryo		
TC20025	L1-L2 Integration		-18	25	21-May-20	25-Jun-20	0%	816	0		L1-L2 Integ		
TC20050	Final Camera Assembly / Closeout		-18	15	26-Jun-20	17-Jul-20	0%	270	0		■ Final Cam		
TC00475	COMP: Camera Ready for Verification Testing	L3	-18	0		17-Jul-20	0%	0	0		◆ COMP: C		
TC20070	NEED: Filters (partial)	L5	-18	0		17-Jul-20	0%	0	0		◆ NEED: Fill		
TC20060	COMP: Camera Ready for Verification Testing	L4	-18	0		17-Jul-20	0%	0	0		◆ COMP: C		
TC20065	NEED: OCS & CCS Ready for I&T Testing (CCS Suite #9)	L5	-18	0		17-Jul-20	0%	0	0		♦ NEED: O		
TC20076	NEED: DAQ Production V5.0	L5	-18	0		17-Jul-20	0%	0	0		◆ NEED: DA		
TC20072	NEED: Filter Loader	L5	-18	0		17-Jul-20	0%	0	0		◆ NEED: Fill		
TC20125	Camera Functional Testing		-18	46	20-Jul-20	22-Sep-20	0%	1432	0		Came		
TC20130	NEED: CCOB Ready for Camera Verification Testing	L5	-18	0		22-Sep-20	0%	0	0		◆ NEED		
TC20150	Camera Verification Testing		-18	45	23-Sep-20	24-Nov-20	0%	1468	0		— C		
CAM112810	CD-4/CRR Director's Team Pre Doc Review		252	5	06-Nov-20	12-Nov-20	0%	0	0		l Ci		
CAM112820	CD-4/CRR Directors Review		252	3	13-Nov-20	17-Nov-20	0%	0	0		I C		
CAM112830	CD-4/CRR Documentation Updates		252	20	18-Nov-20	17-Dec-20	0%	0	0		-		
TC20160	NEED: Filters Remaining	L5	-18	0		24-Nov-20	0%	0	0		♦ N		
TC20170	NEED: Cryostat Sieve (Getter Pumps)	L5	-18	0		24-Nov-20	0%	0	0		♦ N		
TC20175	NEED: Cryostat Evaporative Getter Pumps	L5	-18	0		24-Nov-20	0%	0	0		♦ N		
TC20180	Recover from tests, secure Camera for shipping		-18	7	25-Nov-20	07-Dec-20	0%	392	0		• 1		
TC00500	COMP: Camera Ready - Integrated & Tested @ SLAC	L3	-18	0		07-Dec-20	0%	0	0		• (
TC20200	COMP: Camera Verification Tests Complete	L4	-18	0		07-Dec-20	0%	0	0		• (
TC20349	NEED: As-built documentation	L5	-18	0		07-Dec-20	0%	0	0		◆ 1		
Remaining Level of Effort Actual Work Actual Work Actual Level of Effort Remaining Work Milestone								Page 4	of 5	TASK filters: Critical, WBS. © Oracle Corporation			

LSST Foreca	ast - 2019-05 (Status Review)		LS	SST Came	era - Longest	Path to CD4						18-Jul-1	9 12:21
Activity ID	Activity Name	Global_M Levels	Total Float	Duration	Start	Finish	Activity % Complete		Nonlabor Units	A 3	FY2020	0	FY202
ITC20350	Prep for C_PSR/ORRCamera		-18	6	08-Dec-20	15-Dec-20	0%	120	0				■ F
ITC20375	Camera Pre-Ship/Operations Readiness Review		-18	2	16-Dec-20	17-Dec-20	0%	48	0				1 (
ITC00100	COMP: Ready for CD-4 - I&T	L3	212	0		17-Dec-20	0%	0	0				♦ (
ITC20400	COMP: C_PSR/ORRCamera Pre-Ship/Operations Readiness Review	L4	-18	0		17-Dec-20	0%	0	0				• (
CAMC02750	COMP: Ready for CD-4 Review - Camera	L3	212	0		17-Dec-20	0%	0	0			; ; ;	♦ (
CAM112800	COMP: Project Ready for CD-4/CRR	L4	212	0		17-Dec-20	0%	0	0			1	• (
CAM112840	CD-4/CRR DOE/SC Team Pre Doc Review		252	10	18-Dec-20	14-Jan-21	0%	0	0			1	-
CAM112850	CD-4/CRR DOE/SC Review		252	3	15-Jan-21	19-Jan-21	0%	0	0			1	ı
CAMC02850	COMP: CD-4 Review - Camera Readiness Review	L3	252	0		19-Jan-21	0%	0	0				•
CAM112860	COMP: Camera Ready for CD4 Approval	L4	252	0		19-Jan-21	0%	0	0			1	•
CAM112870	CD-4 Approval Process		252	40	20-Jan-21	17-Mar-21	0%	0	0			1	r
CAMM1060	COMP: CD-4, Approve Project Completion	L1	252	0		17-Mar-21*	0%	0	0			1	
CAMC02950	COMP: CD-4, Approve Project Completion (Early)	L3	252	0		17-Mar-21	0%	0	0	 			