

Filters		ALMA Milestone Summary (Version: 2003Feb18a)							Legend: Level 1:1 Level 2:X Level 3:o (
IPT	Level	Page	Milestone #	WBS #	Milestone Name	Due Date	Level	Status	2002	2003	2004	2005	2006	2007	2008	
Antenna	2	127	8502	3.035.8502	Shared Access VertexRSI Antenna	2002-Nov-15	2	Done		X						
Antenna	2	129	8505	3.035.8505	Provisional Acceptance of VertexRSI Antenna	2003-Feb-14	2	Late		X						
Antenna	2	128	8503	3.035.8503	Deliver Foundation Design requirements	2003-Feb-15	2	Late		X						
Antenna	2	135	8500	3.045.8500	RFQ for VertexRSI Antenna Delivered to Project Office	2003-Feb-28	2			X						
Antenna	2	136	8520	3.045.8520	Submit RFQ to Vertex/RSI	2003-Mar-10	2			X						
Antenna	2	156	8569	3.070.8569	Transporter CFT Critical Review Completed	2003-Mar-15	2			X						
Antenna	2	137	8522	3.045.8522	Receive firm fixed-price Quotation from Vertex/RSI	2003-Apr-10	2			X						
Antenna	2	130	8510	3.035.8510	Complete Technical Performance Report-VertexRSI Antenna	2003-Apr-14	2			XX						
Antenna	2	131	8515	3.035.8515	Interim Antenna Technical Performance Report-AEC Antenna	2003-Apr-14	2			XX						
Antenna	2	132	8530	3.035.8530	Shared Access AEC Antenna (Preliminary Acceptance)	2003-May-28	2			X						
Back End	3	231	50305	5.260.50305	Master Laser Contract signed	2003-Jan-31	3	Done		o						
Computing	2	294	9400	7.340.9400	Computing Subsystem Start (T0)	2002-Jun-01	2	Done	X							
Computing	2	295	9405	7.340.9405	Internal Design Review (IDR)	2002-Dec-09	2	Done		X						
Computing	3	322	70301	7.340.70301	PDR documents delivered to review panel	2003-Feb-24	3			o						
Computing	3	326	70305	7.340.70305	2003-March code checkin	2003-Mar-01	3			o						
Computing	3	323	70302	7.340.70302	PDR meeting held	2003-Mar-20	3			o						
Computing	3	327	70306	7.340.70306	2003-April code checkin	2003-Apr-01	3			o						
Computing	3	338	70317	7.340.70317	Final FE/M&C ICD comments submitted to FE IPT	2003-Apr-01	3			o						
Computing	3	324	70303	7.340.70303	PDR panel report submitted to JAO	2003-Apr-04	3			o						
Computing	2	296	9410	7.340.9410	Preliminary Design Review (PDR)	2003-Apr-11	2			XX						
Computing	3	325	70304	7.340.70304	PDR Computing IPT Management Response	2003-Apr-11	3			o						
Computing	2	297	9415	7.340.9415	Subsystem pre-release (R0)	2003-May-01	2			X						
Computing	3	333	70312	7.340.70312	2003-05 Subsystem checkin	2003-May-01	3			o						
Computing	3	328	70307	7.340.70307	CDR1 Document Set available to Computing IPT	2003-May-23	3			o						
Correlator	2	290	9350	6.325.9350	Second Generation Correlator Feasibility Study	2002-Mar-27	2	Done	X							
Correlator	2	248	9200	6.315.9200	Complete design of pre-production boards for prototype correlator	2002-Dec-30	2	Done		X						
Correlator	2	249	9205	6.315.9205	Begin integrated testing of prototype correlator	2003-Jan-06	2	Done		X						
Correlator	3	250	60301	6.315.60301	Second station motherboard installed	2003-Feb-15	3	Late		o						
Correlator	3	251	60302	6.315.60302	All station PCBs assembled	2003-Feb-15	3	Late		o						
Correlator	2	252	9208	6.315.9208	Correlator ICDs submitted for approval	2003-Feb-28	2			X						
Correlator	3	253	60303	6.315.60303	Correlator motherboard installed	2003-Mar-01	3			o						
Correlator	3	254	60304	6.315.60304	All correlator PCBs except QCC assembled	2003-Mar-15	3			o						
Correlator	3	255	60305	6.315.60305	FPDP interface verified	2003-Apr-01	3			o						
Correlator	2	291	9355	6.325.9355	2GC System Requirements Review	2003-Apr-15	2			X						
Correlator	3	256	60306	6.315.60306	First end-to-end test	2003-Apr-15	3			o						
Front End	2	223	8870	4.258.8870	LO review	2002-Nov-01	2	Done		X						
Front End	2	170	8740	4.080.8740	Prototype cartridge bodies (plus dummies) delivered	2003-Jan-01	2	Done		X						
Front End	3	169	40303	4.080.40303	Cryogenic performance available	2003-Feb-01	3	Late		o						
Front End	2	224	8880	4.258.8880	Deliver lab prototype LO chain to each cartridge man.	2003-Mar-01	2			XX						
Front End	3	167	40302	4.080.40302	Cartridge test dewars available	2003-Mar-01	3			o						
Front End	3	222	40501	4.258.40501	Cold multiplier performance verified	2003-Mar-01	3			o						
Front End	2	160	8700	4.075.8700	Initial set of FE specs and interface-control documents discussed	2003-Apr-01	2			X						
Front End	2	186	8835	4.100.8835	Deliver lab prototype M/C circuit	2003-Apr-01	2			XX						
Front End	2	163	8995	4.075.8995	All FE Contracts / Agreements in place	2003-Apr-01	2			X						
Front End	2	161	8705	4.075.8705	FE specifications and requirements plus ICD's submitted for approval	2003-Apr-15	2			XX						
Front End	2	177	8765	4.090.8765	Freeze optics design	2003-Apr-30	2			X						
Front End	2	178	8770	4.090.8770	Freeze windows/IR filters design	2003-Apr-30	2			X						
Management	2	27	8160	1.015.8160	All Requirements and Definitions Available	2002-Nov-01	2	Late		X						
Management	2	28	8165	1.015.8165	Site available for Work	2003-Jan-01	2	Late		X						
Management	2	8	8120	1.010.8120	Executives submit 2003 budget and financial projections to JAO	2003-Feb-05	2	Done		XX						
Management	2	29	8170	1.015.8170	Submit 2003 budget and financial projections to ALMA Board	2003-Feb-11	2	Done		XX						
Management	3	2	10301	1.015.10301	ALMA Board Face to Face Meeting	2003-Feb-24	3			o						
Management	2	9	8121	1.010.8121	Executives submit 2002 financial report (actual expenditures and value earned) to JAO	2003-Feb-28	2			X						
Management	3	3	10302	1.015.10302	ALMA Board Teleconference	2003-Mar-27	3			o						
Management	2	30	8171	1.015.8171	Submit 2002 financial report (actual expenditures and value earned) to ALMA Board	2003-Mar-31	2			X						

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IPT	Level	Page	Milestone #	WBS #	Milestone Name	Due Date	Level	Status	2002	2003	2004	2005	2006	2007	2008
Management	3	4	10303	1.015.10303	ALMA Board Teleconference	2003-Apr-29	3			o					
Management	2	1	8105	1.010.8105	Designation of responsibility for Phase 2 development work elements in Europe	2003-May-01	2		X	X					
Management	3	5	10304	1.015.10304	ALMA Board Face to Face Meeting	2003-May-26	3			o					
Science	2	402	9800	9.380.9800	Plan for compact and intermediate configurations submitted	2002-Oct-15	2	Late	X						
Science	3	433	98051	9.380.98051	Draft of calibration requirements document	2002-Dec-31	3	Done	o						
Science	2	403	9805	9.380.9805	Review of calibration requirements with science examples complete	2003-Feb-28	2			X					
Science	3	436	98201	9.380.98201	Draft of bandpass calibration plan	2003-Mar-30	3			o					
Science	3	437	98202	9.380.98202	Draft of phase calibration plan	2003-Mar-30	3			o					
Science	3	438	98203	9.380.98203	Draft of amplitude calibration plan	2003-Mar-30	3			o					
Science	3	439	98204	9.380.98204	Review of SSR plan for phase calibration techniques	2003-Mar-30	3			o					
Science	3	440	98205	9.380.98205	Draft of delay calibration plan	2003-Mar-30	3			o					
Science	3	441	98206	9.380.98206	Draft of antenna location determination plan	2003-Mar-30	3			o					
Science	3	442	98207	9.380.98207	Draft of antenna global pointing model determination plan	2003-Mar-30	3			o					
Science	3	443	98208	9.380.98208	Draft of reference pointing and focus calibration plans	2003-Mar-30	3			o					
Science	3	444	98209	9.380.98209	Draft of polarization calibration plan	2003-Mar-30	3			o					
Science	3	445	98210	9.380.98210	Draft of operation model for calibration	2003-Mar-30	3			o					
Science	3	457	98351	9.380.98351	Draft of WVR technical aspects document	2003-Mar-30	3			o					
Science	3	434	98121	9.380.98121	ATM software library available	2003-Mar-31	3			o					
Science	3	406	98151	9.380.98151	Investigation of Logic of Antenna Motion	2003-Mar-31	3			o					
Science	3	407	98152	9.380.98152	First revised configuration (pad position) plan submitted	2003-Mar-31	3			o					
Science	3	435	98122	9.380.98122	Draft specifications for calibration devices	2003-Apr-30	3			o					
Science	3	425	98701	9.380.98701	Uniform integration of NA and EU data.	2003-Apr-30	3			o					
Science	3	426	98702	9.380.98702	Description of current site characterization instrumentation.	2003-Apr-30	3			o					
Site	2	55	8220	2.025.8220	Award Contract Design / Engineering for AOS Facilities NA	2002-Oct-09	2	Done	X						
Site	2	49	8208	2.025.8208	Final Approval of Architectural program for all AOS buildings	2003-Feb-01	2	Late	X						
Site	2	52	8212	2.025.8212	Draft Joint Antenna Foundation Interface	2003-Feb-01	2	Late	X	X					
Site	2	87	8300	2.025.8300	Access Road EU Design/Eng Contract Awarded	2003-Feb-13	2	Late	X						
Site	2	53	8213	2.025.8213	Freeze Joint Antenna Foundation Interface	2003-Feb-15	2	Late	X	X					
Site	2	84	8290	2.025.8290	Construction Road Opening EU Construction / Tender Docs Complete	2003-Feb-15	2	Late	X						
Site	2	54	8216	2.025.8216	Freeze Central Cluster Configuration	2003-Mar-01	2		X						
Site	2	56	8222	2.025.8222	AOS Foundations NA Central Cluster CDR	2003-Mar-01	2		X						
Site	2	94	8320	2.025.8320	ALMA Camp Construction / Tender Docs Complete	2003-Mar-01	2		X						
Site	2	97	8330	2.025.8330	Contractors Camp Construction / Tender Docs Complete	2003-Mar-01	2		X						
Site	3	50	20301	2.025.20301	AUI Santiago Contract/Business manager starts	2003-Mar-01	3		o						
Site	2	88	8302	2.025.8302	Access Road to OSF EU CDR Complete	2003-Mar-31	2		X						
Site	2	114	8370	2.025.8370	Power Feasibility Study Completed	2003-Mar-31	2		X						
Site	2	48	8204	2.025.8204	Access to land, permissions secured	2003-Apr-01	2		X	X					
Site	2	69	8250	2.025.8250	AOS Buildings NA Foundations/Envelope CDR Complete	2003-Apr-01	2		X						
Site	2	85	8292	2.025.8292	Construction Road Opening EU Construction Contract Signed	2003-Apr-01	2		X						
Site	2	110	8360	2.025.8360	Freeze Fiber Optics and Electrical Specifications	2003-Apr-01	2		X						
Site	3	51	20302	2.025.20302	AUI Contract/Business function in Santiago in place and functioning	2003-Apr-01	3		o						
Site	2	57	8224	2.025.8224	AOS Foundations NA Central Cluster Construction Tender Docs Complete	2003-Apr-15	2		X						
Site	2	89	8304	2.025.8304	Access Road OSF to AOS EU CDR Complete	2003-Apr-15	2		X						
Site	2	95	8324	2.025.8324	ALMA Camp Construction Contract Signed, Work begins	2003-May-01	2		X						
Site	2	98	8332	2.025.8332	Contractors Camp Construction Contract Signed, Work begins	2003-May-01	2		X						
Site	2	70	8252	2.025.8252	AOS Buildings NA Foundations/Envelope Construction / Tender Docs Complete	2003-May-31	2		X						
System	1	382	8005	8.370.8005	Start Antenna Evaluation at ALMA Test Facility	2003-Feb-21	1		1						
System	3	351	80301	8.365.80301	80301- Product Assurance Plan - draft	2003-Mar-03	3		o						
System	3	371	80303	8.370.80303	9650-1 Prototype Integration Plan - draft - outline and inventory only	2003-Mar-15	3		o						
System	3	354	80305	8.365.80305	9602-1 List and outline of all Requirements documents	2003-Mar-15	3		o						
System	2	383	9700	8.370.9700	NA Prototype Holography Complete	2003-May-06	2		X	X					
System	3	352	80302	8.365.80302	80302- Configuration Management Plan - draft	2003-May-26	3		o						