Revised ALMA Chart of Accounts

2002-Sep-27 R. S. Simon

Starting 2002 October 1st, the ALMA project at NRAO has a new Chart of Accounts. This change was necessitated by NRAO's adoption of a new Chart of Accounts. After October 1st, please use only the new account numbers, and do not use the old J series of accounts. The revised Chart of Accounts provides significant benefits and improvements in access, reporting, and budgeting.

Brief Instructions:

An ALMA account number consists of three parts, specified with the following syntax:

(Business Unit).(Object Class).(Subsidiary)

Business Unit is one of the major NRAO activities; for all ALMA accounts the business unit is the same: **701**.

Object Class is the type of expenditure, and should be specified on all procurements and travel. There are ~60-70 Object Classes, but for most purposes the simplified version attached is all you will need. Money is budgeted into 3 of the Object Classes (people, places, or things), and is spent from one of the other 41. A list of the official Object Classes is attached.

Subsidiary is the actual ALMA Work Element number, with a one-to-one correspondence between the 4-digit Subsidiary Number and a 4-digit ALMA Work Element Number. A list of the official ALMA Work Elements (Subsidiaries) is attached, with their funding status for 2003.

Example:

The North American Project orders a new computer. The account number to charge would be **701.1616.0100**

(**701** is the ALMA business unit, 1616 is Computer hardware, and 0100 is the ALMA Work Element for the North American Project Office).

Example: Brian Glendenning travels to Germany. The account number would be **701.1690.2640** (**701**=ALMA; **1690**=Travel-Foreign; **2640**=Computing Subsystem Management)

NRAO ALMA Accounts: 2002sep27

NRAO ALMA accounts are specified as **701.0000.SSSS**, where **0000** is selected from a list of "Objects" (i.e., types of expenditures) and **SSSS** is the "Subsidiary" number, equal to one of the ALMA Work Element Numbers listed below

	AWE #	ALMA Work Element Name	NRAO	2003
	("Subsidiary")		Responsible	Budget
1	0100	North American Project Office	Rafal	TBD
2	3060	North American Education and Public Outreach	Rafal	TBD
3	0160	Joint ALMA Office	Vanden Bout	TBD
4	3100	Chilean Education and Public Outreach	Vanden Bout	TBD
5	0200	Site Construction Management	Radford	TBD
6	0210	Site Infrastructure	Radford	TBD
7	0220	Array Site	Radford	TBD
8	0260	Array/OSF Access Roads	Radford	0
9	0280	Array/OSF Communication Links	Radford	0
10	0320	Antenna Management Phase 2	Kingsley	TBD
11	0053	Antenna Prototype Support	Kingsley	0
12	0360	North Am. Post Acceptance Evaluation	Kingsley	TBD
13	0380	Euro Post Acceptance Evaluation	Kingsley	TBD
14	0440	Final Design Mods & Documentation; Prepare Bid Package	Kingsley	TBD
15	0450	Production Antenna Contracting and Support	Kingsley	TBD
16	0480	Final Foundation Designs	Kingsley	0
17	0500	Production Antennas North Am.	Kingsley	0
18	0560	Production Antenna Acceptance at OSF	Kingsley	0
19	0580	Production Antenna Nutator	Kingsley	TBD
20	0620	Front End Subsystem Management	Cunningham	TBD
21	0054	Front End ATF Support	Perfetto	TBD
22	0640	Front End Subsystem Engineering	Cunningham	TBD
23	0780	Prototype frontend development	Perfetto	TBD
24	0782	Design and development of the front-end cartridge support electronics	Perfetto	TBD
25	1660	Front-end chassis (Production)	Tan	0
26	0800	Front end DC bias electronics (PRODUCTION)	Perfetto	TBD
27	0820	Front end IF selector switch (PRODUCTION)	Perfetto	TBD
28	0840	Front end monitor and control electronics (PRODUCTION)	Perfetto	TBD
29	0940	Subreflector Calibration System - control s/w and h/w	Cunningham	TBD
30	0960	Subreflector Calibration System - hardware at subreflector	Cunningham	TBD
31	0623	Band 3 Management	Cunningham	TBD
32	1003	Band 3 Prototype Cartridge	Cunningham	TBD
33	1063	Band 3 Test Set LO and Sideband Source	Cunningham	TBD
34	1123	Band 3 Mixer Test Set	Cunningham	TBD
35	1233	Band 3 SIS Mixer Prototype	Cunningham	TBD
36	1243	Band 3 SIS Mixers	Cunningham	TBD
37	1273	Band 3 Amplifier test set	Cunningham	TBD
38	1283	Band 3 Cooled IF amplifiers	Cunningham	TBD
39	1313	Band 3 Cartridge Test Set	Cunningham	0
40	1323	Band 3 Cartridge Assembly (Production)	Cunningham	0
41	1333	Band 3 Cartridge Testing (Production)	Cunningham	0
42	1403	Band 3 SIS Devices (Production)	Cunningham	TBD
43	0626	Band 6 Management	Cunningham	TBD
44	1006	Band 6 Prototype Cartridges	Cunningham	TBD
45	1066	Band 6 Test Set LO and Sideband Source	Webber	TBD
46	1126	Band 6 Mixer Test Set	Webber	TBD
47	1236	Band 6 SIS Mixer Prototype	Webber	TBD
48	1246	Band 6 SIS Mixers	Webber	TBD
49	1286	Band 6 Cooled IF amplifiers	Webber	TBD
50	1316	Band 6 Cartridge Test Set	Webber	0
51	1326	Band 6 Cartridge Assembly (Production)	Cunningham	0
52	1336	Band 6 Cartridge Testing (Production)	Webber	0
53	1406	Band 6 SIS Devices (Production)	Webber	TBD
54	1253	Band 3 OMT Development & Production	Perfetto	TBD
55	1256	Band 6 OMT Development	Perfetto	TBD
56	1260	Band 6 OMT Production	Perfetto	TBD
57	1580	Frontend integration centre test set #1	Perfetto	TBD
58	1620	Frontend integration centre #1 setup and operation	Perfetto	TBD
59	1680	Front End Service and Exchange Vehicle	Cunningham	0
60	1720	LO driver continued development section	Webber	TBD
61	1740	Cold multiplier continued development section	Webber	TBD
62	1760	LO Multiplier Drivers fabrication and test	Webber	0
63	1800	Cold multiplier fabrication and test equipment	Webber	TBD
64	1100	Pre-prototype and prototype local-oscillator chains	Webber	TBD

	AWE # ("Subsidiary")	ALMA Work Element Name	NRAO Responsible	2003 Budget
65	1103	LO Production Band 3	Webber	0
66	1106	LO Production Band 6	Webber	0
67	1107	LO Production Band 7	Webber	0
68	1109	LO Production Band 9	Webber	0
69	3106	LO Production Diode Multipliers Band 6	Webber	0
70	3107	LO Production Diode Multipliers Band 7	Webber	0
71	3109	LO Production Diode Multipliers Band 9	Webber	0
72	3500	BE IPT Management	Sramek	TBD
73	0055	BE Prototype Development and ATF Support	Sramek	0
74	3520	Engineering support - NA	Sramek	TBD
75 76	3550 3560	IFDC Prototype IFDC Microwave Sections	Sramek Sramek	TBD 0
77	3570	TP Digitizer, M/C	Sramek	0
78	3580	IFDC Integrate & Test (plus test equipment)	Sramek	0
79	3700	DTS - Prototype NA	Sramek	TBD
80	3730	Formatter / Deformatter / Clock Gen	Sramek	0
81	3790	DTS final modules - Integrate & Test (& test equipment)	Sramek	0
82	3800	Low Freq Distribution - Prototype	Sramek	TBD
83	3810	Photonic LO (Reference) - Prototype	Sramek	TBD
84	0860	Photonic Phase Cal Development	Payne	TBD
85	1700	Photonic LO Development N. Am.	Sramek	TBD
86	3825	LO Frequency Reference Distribut\ion	Sramek	0
87 88	3830 3835	2nd LO Synthesizer / FTS	Sramek Sramek	0 0
88 89	3835 3840	Laser Synthesizer RF Reference Power supplies - BE System	Sramek	0
90	3845	Lab and Test Equipment (Low Freq LO Distribution production)	Sramek	0
91	3850	Laser Synthesizer	Sramek	0
92	3860	Master Laser	Sramek	0
93	3870	Photonic LO Distribution	Sramek	0
94	3880	Line Length Corrector	Sramek	0
95	3890	Phot Ref Rcvr / Photomixer /2 GHz Modulator	Sramek	0
96	3895	Lab & Test Equipment (Photonic LO production)	Sramek	0
97	3900	BE System Production	Sramek	0
98	0900	Photonic Phase Cal Production	Sramek	0
99	3950	Integration in Chile - Support - NA	Sramek	0
100	2420	Baseline Correlator Mgmt/Subsystem Engineering Phase 2	Webber Webber	TBD
101 102	0056 2440	Correlator Phase 2 Development Baseline Correlator Continued Support	Webber	0 0
102	2460	Prototype Correlator Production	Webber	TBD
104	2470	Advance component procurement	Webber	TBD
105	2480	First 1/4 correlator	Webber	TBD
106	2500	Second 1/4 correlator	Webber	0
107	2520	Third 1/4 correlator	Webber	0
108	2540	Fourth 1/4 correlator	Webber	0
109	2640	Computer Subsystem Management	Glendenning	TBD
110	0057	Computing Phase 2 transition (NRAO)	Glendenning	0
111	2660	Computing Hardware	Raffi	TBD
112 113	2680 2700	Science Software Requirements	Lucas	TBD
113	2700 2720	High Level Analysis & Design Software Engineering	Schwarz Zamparelli	TBD TBD
115	2720	Common Software	Chiozzi	TBD
116	2760	Control Software	Marson	TBD
117	2780	Correlator Software	Pisano	TBD
118	2800	Pipeline Software	Kemball	TBD
119	2820	Archiving	Wicenec	TBD
120	2840	Scheduling	Glendenning	TBD
121	2880	Off-line Data Processing/Analysis	Kemball	TBD
122		Integration, Test & Support	Glendenning	TBD
123	2920			
	2940	SE&I Management	Gray	TBD
124	2940 0058	SE&I Management ATF System Engineering Support	Gray Gray	0
124 125	2940 0058 2960	SE&I Management ATF System Engineering Support Phase 2 System Engineering	Gray Gray Gray	0 TBD
124 125 126	2940 0058 2960 2980	SE&I Management ATF System Engineering Support Phase 2 System Engineering Prototype Antenna Evaluation #1	Gray Gray Gray Mangum	0 TBD TBD
124 125 126 127	2940 0058 2960 2980 2985	SE&I Management ATF System Engineering Support Phase 2 System Engineering Prototype Antenna Evaluation #1 Prototype Antenna Evaluation #2	Gray Gray Gray Mangum Mangum	0 TBD TBD TBD
124 125 126	2940 0058 2960 2980 2985 3000	SE&I Management ATF System Engineering Support Phase 2 System Engineering Prototype Antenna Evaluation #1 Prototype Antenna Evaluation #2 Pre Production ALMA System Integration	Gray Gray Gray Mangum Mangum Gray	0 TBD TBD
124 125 126 127 128	2940 0058 2960 2980 2985	SE&I Management ATF System Engineering Support Phase 2 System Engineering Prototype Antenna Evaluation #1 Prototype Antenna Evaluation #2	Gray Gray Gray Mangum Mangum	0 TBD TBD TBD 0
124 125 126 127 128 129	2940 0058 2960 2980 2985 3000 3020	SE&I Management ATF System Engineering Support Phase 2 System Engineering Prototype Antenna Evaluation #1 Prototype Antenna Evaluation #2 Pre Production ALMA System Integration ALMA System Integration	Gray Gray Gray Mangum Mangum Gray Gray	0 TBD TBD TBD 0 0
124 125 126 127 128 129 130	2940 0058 2960 2980 2985 3000 3020 3040	SE&I Management ATF System Engineering Support Phase 2 System Engineering Prototype Antenna Evaluation #1 Prototype Antenna Evaluation #2 Pre Production ALMA System Integration ALMA System Integration Phase 2 Science Support	Gray Gray Gray Mangum Mangum Gray Gray Wootten	0 TBD TBD 0 0 TBD

ALMA Project Object Classes

Object classes are the middle part of a complete account number. The 3 objects highlighted in gray are used only for budgeting, while the other 41 are used for expenditures.

1402	Wages and Benefits		
1404	Personnel Compensation		
1434	Benefits		
1500	1500 Fixed Assets, Materials, & Services		
1505	Land & Improvements		
1510	Buildings		
1520	Telescopes (>\$5,000)		
1530	Test & Research Equipment (>\$5,000)		
1540	Equipment (>\$5,000)		
1541	Computer Hardware (>\$5,000)		
1550	Vehicles		
1604	Office Furniture		
1605	Office Supplies		
1606	Other Supplies		
1607	Memberships & Publications		
1608	Employee Morale		
1613	Credit Card Clearing Account		
1615	Computer Software		
1616	Computer Hardware		
1617	Computer Supplies		
1625	Components/Parts		
1626	Tools & Equipment(<\$5,000)		
1627	Consumables		
1628	Diesel, Gasoline, and Other Fuel		
1635	Freight		
1636	Postage Expense		
1641	Utilities		
1642	Communications		
1651	Building Rent and Maintenance		
1652	Equipment Maintenance		
1653	Vehicle Maintenance		
1661	Computer Software Maintenance		
1662	Computer Hardware Maintenance		
1666	Contracts & Services		
1667	Consultants		
1668	Meetings, Seminars, and Registration Fees		
1677	Legal Expenses		
1678	Insurances		
1679	AUI Management Fee		
1684	Travel		
1686	Travel – Domestic		
1690	Travel – Foreign		
1694	Travel – Relocation		
1695	Travel – Non-employee		