

# IceCube Project Numbers

1/8/20041:19 PM

	Year 1 Project Numbers	Year 2 Project Numbers
<b>1 PROJECT SUPPORT</b>		
<b>1.1 Management</b>		9110
1.1.1 Project Manager	9011	9111
1.1.2 Financial Management	9012	9112
1.1.3 Subawards	9013	9113
1.1.4 Project Reviews	9014	9114
1.1.5 Reliability and QA	9015	9115
1.1.6 Plans and Controls		9116
1.1.7 Participant Support		9117
<b>1.2 Systems Engineering</b>		9420
1.2.1 System Engineering Mgt		9421
1.2.2 Software Coordination		9422
1.2.3 Interface Control	9022	9423
1.2.4 Requirements & Specs	9021	9424
1.2.5 System Integration & Test	9024	9425
1.2.6 Risk Assessment and Mitigation	9023	9426
1.2.7 Engineering Support	9025	9427
<b>2 IMPLEMENTATION</b>		
<b>2.1 Logistics</b>	9030	9430
Logistics		9431
<b>2.2 Drilling</b>		
2.2.1 Drilling Management	9040	9440
Drilling		9441
<b>2.2.2 EHWD Drill Development</b>	8540	
2.2.2.1 EHWD Project Management and Administration	8541	
2.2.2.2 Drill Control System	8542	
2.2.2.3 Electrical Power Distribution System	8543	
2.2.2.4 Hose/Plumbing System	8544	
2.2.2.5 Heating System	8545	
2.2.2.6 Tower Operations Site	8546	
2.2.2.7 Integration and Test	8547	
2.2.3 DCS Maintenance		8550
2.2.4 EPDS Maintenance		8551
2.2.5 Hose/Plumbing Maintenance		8552
2.2.6 Heating System Maintenance		8553
2.2.7 Tower Operations Site Maintenance		8554
2.2.8 Field Seasons	8548	8555
2.3 Deployment		9150
2.3.1 Deployment Management		9151
2.3.2 Deployment System Design		9152
2.3.3 Deployment Field Season Operations		9153
2.3.4 Deployment Instrument Commissioning		9154
<b>3 INSTRUMENTATION</b>		
<b>3.1 In-Ice Devices</b>		
3.1.1 Optical Modules	7950	7950

# IceCube Project Numbers

1/8/20041:19 PM

3.1.1.1 OM Layout & Design	7951	7951
3.1.1.2 OM Flasher Board	7952	7952
3.1.1.3 OM PMT Base Board	7953	7953
3.1.1.4 OM Photo-multiplier tube (PMT)	7954	7954
3.1.1.5 OM Pressure Vessel	7955	7955
3.1.1.6 OM Connector	7956	7956
3.1.1.7 OM Magnetic Shield	7957	7957
3.1.1.8 OM Mechanical Harness	7958	7958
3.1.1.9 OM Production	7959	7959
3.1.1.10 OM Calibration, Test & QA	7960	7960
3.1.2 Cables	7963	7963
3.1.3 In-Ice Device Management		<b>7964</b>
<b>3.2 Ice Top</b>		9170
3.2.1 Tanks	9071	<b>9171</b>
3.2.2 Cables	9072	<b>9172</b>
3.2.3 Optical Modules	9073	<b>9173</b>
3.2.4 IT Specific Engineering	9074	<b>9174</b>
3.2.5 Integration of SPASE		9175
3.2.6 IT Management		9176
<b>3.3 Data Acquisition H/W</b>		9180
3.3.1 Design		<b>9181</b>
3.3.1.1 System Architecture	9081	9182
3.3.1.2 DAQ System Design	9082	9183
3.3.1.3 Main PCB Design	9083	9184
3.3.1.4 DOM Hub Engineering&Prototype	9084	9185
3.3.1.5 Trigger Subsystem		9186
3.3.1.6 Event Builder Subsystem		9187
3.3.1.7 Power & Slow Controls		9188
3.3.1.8 Calibration & Monitoring		9189
3.3.1.9 Post-Deployment Commissioning		9191
3.3.2 System Test		9192
3.3.3 Component Fabrication		9193
3.3.4 Component Testing and Shipping		9194
<b>3.4 Data Acquisition S/W</b>		9200
3.4.1 Software System Architecture	9091	9201
3.4.2 Production Test Software Framework	9098	9202
3.4.3 System Monitors and Controls		9203
3.4.4 Test and Integration Testbed		9204
3.4.5 First Production (Test DAQ) Test Sysystem		9205
3.4.6 First Deployment DAQ System		9206
3.4.7 Fully Deployed Detector DAQ System		9207
3.4.8 Software System Engineering		9208
<b>4 DATA SYSTEMS</b>		
<b>4.1 Data Handling</b>		9220
4.1.1 South Pole Operations		9221
4.1.2 Data Transfer		9222
4.1.3 Data Warehouse		9223
4.1.4 Northern Hemisphere Resources		9224

# IceCube Project Numbers

1/8/2004 1:19 PM

<b>4.2 Data Filtering S/W</b>		9240
4.2.1 South Pole Online Processing S/W		9241
4.2.2 Production Processing S/W		9242
4.2.3 Database Design and Implementation		9243
4.2.4 Visualization Tools		9244
4.2.5 Software Management	9108	9245
<b>4.3 Simulation</b>		9260
4.3.1 Event Generation		9261
4.3.2 Lepton Propagation		9262
4.3.3 Photon Field and Detector Simulation	9120	9263
4.3.4 Simulation Production		9264
4.3.5 Special Simulations		9265
4.3.6 Documentation		9266
<b>5 DETECTOR COMMISSIONING&amp;VERIFICATION</b>		
<b>5.1 Verification and Physics Benchmarks</b>		9280
5.1.1 Planning		9281
5.1.2 Analysis Coordination	9141	9282
5.1.3 Internal Reviews		9283
5.1.4 Talks		9284
<b>5.2 Reconstruction</b>		9300
5.2.1 Planning		9301
5.2.2 Muon Tracks		9302
5.2.3 Muons with Other Objects		9303
5.2.4 Neutrino Induced Cascades		9304
5.2.5 Tau Neutrinos		9305
5.2.6 Ice Top		9306
5.2.7 Special Triggers		9307
5.2.8 Code Testing		9308
5.3 Detector Characterization	9143	9320
5.3.1 Detector Monitoring		9321
5.3.2 Calibrations	9131	9322
5.4 AMANDA/IceCube Integration		9340
5.4.1 Planning		9341
5.4.2 AMANDA/IceCube Software Integration		9342
5.4.3 AMANDA S/W Maintenance & Coordination		9343
5.4.4 Coincidence Triggering		9344
5.4.5 AMANDA Computing Systems		9345
5.4.6 String 18 Test Bed for IceCube		9346
5.4.7 Transient Waveform Recording		9347
5.4.8 Supervova		9348