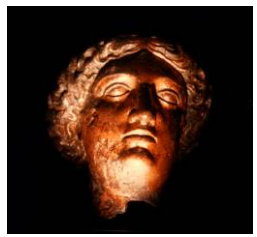
Project Status Report
February 8, 2006

Debbie Harris, Nancy Grossman



MINERνA
OPMO Meeting
8 February 2006
Debbie Harris
Nancy Grossman

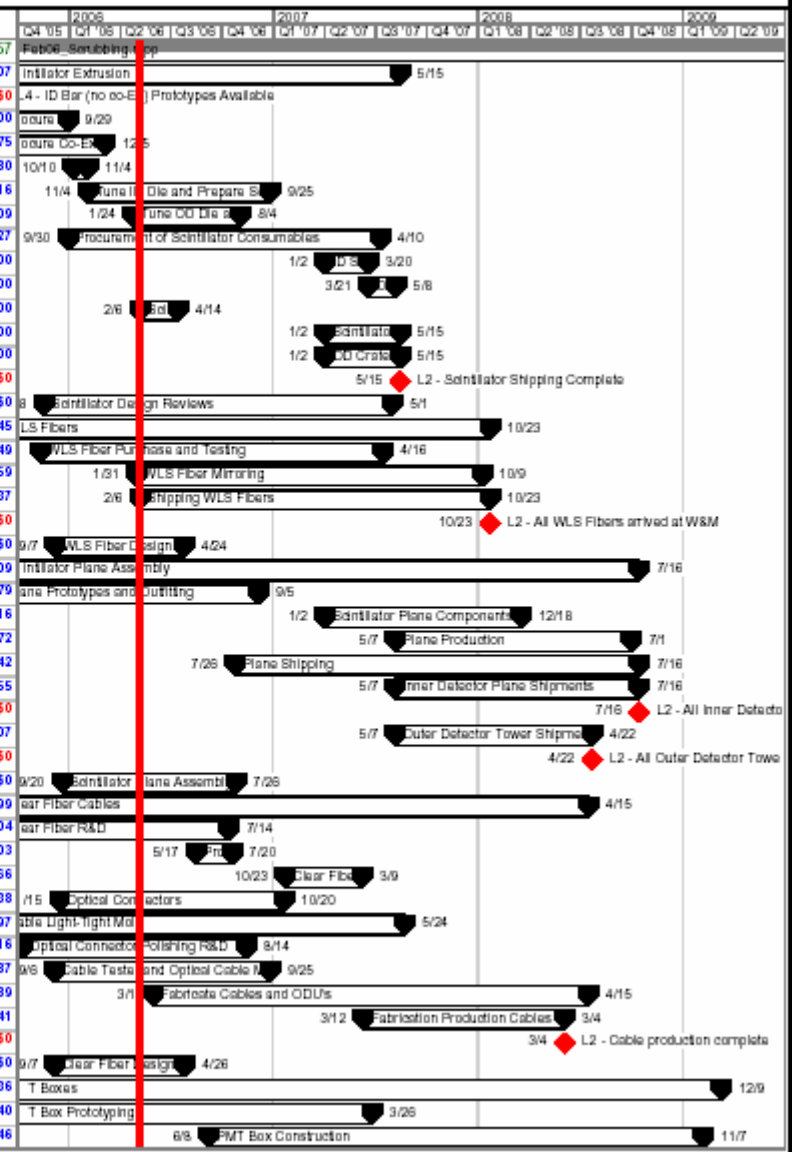
CD-1 Prerequisites

	Critical Decision Prerequisites	Target Start Date	Start Date	Target Completion Date	Date Completed	Date Approved	Docdb #	Current Status
CD-1	Conceptual Design Report (CDR)	3-Jan-06	10-Jan-06	15-Feb-06			482	40% complete
	Acquisition Strategy		1-Nov-05	15-Feb-06			221	Ready for Steve & Joe to review.
	Preliminary Project Execution Plan (PEP)		1-Oct-05	31-Jan-06			61	Submitted to Steve, Mike P., Mont
	Preliminary Hazard Analysis Report		1-Nov-05	15-Feb-06			310	Ready for review by ES&H.
	Project Data Sheet for design (includes PED Funds)	N/A	N/A	N/A	N/A	N/A		N/A
	Verification of mission need (DOE or Fermilab CD-1 Review)			28-Feb-06				
	Preliminary Project Management Plan (PMP)		15-Jul-05	31-Jan-06			59	Submitted to Steve, Mike P., Mont
	Baseline range for Cost, Schedule and Scope (preliminary Resource Loaded Schedule (RLS), Bases of Estimate (BOE), WBS Dictionary and Milestone Dictionary)		1-Jun-05	15-Feb-06			86	Will use Director's Review schedule with cover page. (show draft)
	Draft Risk Management Plan		1-Dec-05	15-Feb-06			327	Ready for Ed/Dean to look at.
	Draft Configuration Management Document		1-Dec-05	15-Feb-06			326	Ready for Ed/Dean to look at.
	Initial Value Management Document		1-Dec-05	15-Feb-06			329	Ready for Ed/Dean to look at.
	PARS Reporting (reporting a comparison of project performance with the conceptual design schedule and cost plan)			28-Feb-06				Working with Sherie/TJ on project monthly reporting of costs (to Steve), need to show first pass to Steve.

Baseline Range

MINERvA Costs
from MINERvA_06Feb06_Scrub.mpp
Sorted by WBS Number

Task ID	WBS	Task Name	Duration	Start	Finish	Cost
0	0	MINERvA_06Feb06_Scrubbing.mpp	228 wks	2/1/05	8/10/09	$8,391,257
1	1	Scintillator Extrusion	98.6 wks	6/1/05	5/15/07	$493,807
2	1.1	L4 - ID Bar (no co-Ex) Prototypes Available	0 wks	6/1/05	6/1/05	$0
3	1.2	Procure Scintillator Consumables for Prototyping	17 wks	6/1/05	9/29/05	$27,400
7	1.3	Procure Co-Extrusion Equipment	26 wks	6/1/05	12/5/05	$9,575
12	1.4	Installation of Co-Extruder	4 wks	10/10/05	11/4/05	$34,080
16	1.5	Tune ID Die and Prepare Scintillator prototype	44.4 wks	11/4/05	9/25/06	$58,716
22	1.6	Tune OD Die and Prepare Scintillator prototype	27.4 wks	1/24/06	8/4/06	$57,209
29	1.7	Procurement of Scintillator Consumables	76.6 wks	9/30/05	4/10/07	$170,227
35	1.8	ID Scintillator Production	11 wks	1/2/07	3/20/07	$70,400
38	1.9	OD Scintillator Production	7 wks	3/21/07	5/8/07	$44,800
42	1.10	Scintillator Prototype Shipping	10 wks	2/6/06	4/14/06	$2,000
51	1.11	Scintillator Production Shipping	19 wks	1/2/07	5/15/07	$19,400
61	1.11.2	OD Crates and Shipping	19 wks	1/2/07	5/15/07	$3,000
68	1.11.2.7	L2 - Scintillator Shipping Complete	0 wks	5/15/07	5/15/07	$0
69	1.12	Scintillator Design Reviews	85.6 wks	8/18/05	5/1/07	$0
73	2	WLS Fibers	120.9 wks	6/1/05	10/23/07	$468,745
74	2.1	WLS Fiber Purchase and Testing	84.1 wks	6/12/05	4/16/07	$353,649
94	2.2	WLS Fiber Mirroring	85.7 wks	1/31/06	10/9/07	$99,559
99	2.3	Shipping WLS Fibers	86.9 wks	2/6/06	10/23/07	$15,537
106	2.3.7	L2 - All WLS Fibers arrived at W&M	0 wks	10/23/07	10/23/07	$0
111	2.5	WLS Fiber Design Reviews	31.6 wks	9/7/05	4/24/06	$0
116	3	Scintillator Plane Assembly	157.3 wks	6/1/05	7/16/08	$1,145,909
117	3.1	Plane Prototypes and Outfitting	63.8 wks	6/1/05	9/5/06	$260,579
196	3.2	Scintillator Plane Components	49 wks	1/2/07	12/18/07	$138,916
266	3.3	Plane Production	58 wks	5/7/07	7/1/08	$655,672
288	3.4	Plane Shipping	99.3 wks	7/26/06	7/16/08	$90,742
293	3.4.2	Inner Detector Plane Shipments	60 wks	5/7/07	7/16/08	$46,155
305	3.4.2.12	L2 - All Inner Detector Planes Shipped To Fermilab	0 wks	7/16/08	7/16/08	$0
306	3.4.3	Outer Detector Tower Shipments	48.3 wks	5/7/07	4/22/08	$36,007
314	3.4.3.8	L2 - All Outer Detector Towers Shipped To Fermilab	0 wks	4/22/08	4/22/08	$0
315	3.5	Scintillator Plane Assembly Design Reviews	42.8 wks	9/20/05	7/26/06	$0
323	4	Clear Fiber Cables	144.6 wks	6/1/05	4/15/08	$947,099
324	4.1	Clear Fiber R&D	56.6 wks	6/1/05	7/14/06	$18,904
331	4.2	Prototype Clear Fiber	9 wks	5/17/06	7/20/06	$8,803
335	4.3	Clear Fiber Bulk Procurement	18.8 wks	10/23/06	3/9/07	$156,166
340	4.4	Optical Connectors	55.6 wks	9/15/05	10/20/06	$84,938
352	4.5	Cable Light-Tight Mold	100 wks	6/1/05	5/24/07	$67,497
357	4.6	Optical Connector Polishing R&D	55.4 wks	7/11/05	8/14/06	$25,116
366	4.7	Cable Tester and Optical Cable Mapper	53.2 wks	9/6/05	9/25/06	$30,887
385	4.8	Fabricate Cables and ODU's	107.2 wks	3/1/06	4/15/08	$554,789
396	4.8.3	Fabrication Production Cables and ODUs	49.4 wks	3/12/07	3/4/08	$516,041
405	4.8.3.9	L2 - Cable production complete	0 wks	3/4/08	3/4/08	$0
409	4.9	Clear Fiber Design Reviews	32 wks	9/7/05	4/26/06	$0
414	5	PMT Boxes	177.6 wks	6/1/05	12/9/08	$914,936
415	5.1	PMT Box Prototyping	91.4 wks	6/1/05	3/26/07	$162,340
434	5.2	PMT Box Construction	122.2 wks	6/8/06	11/7/08	$524,046



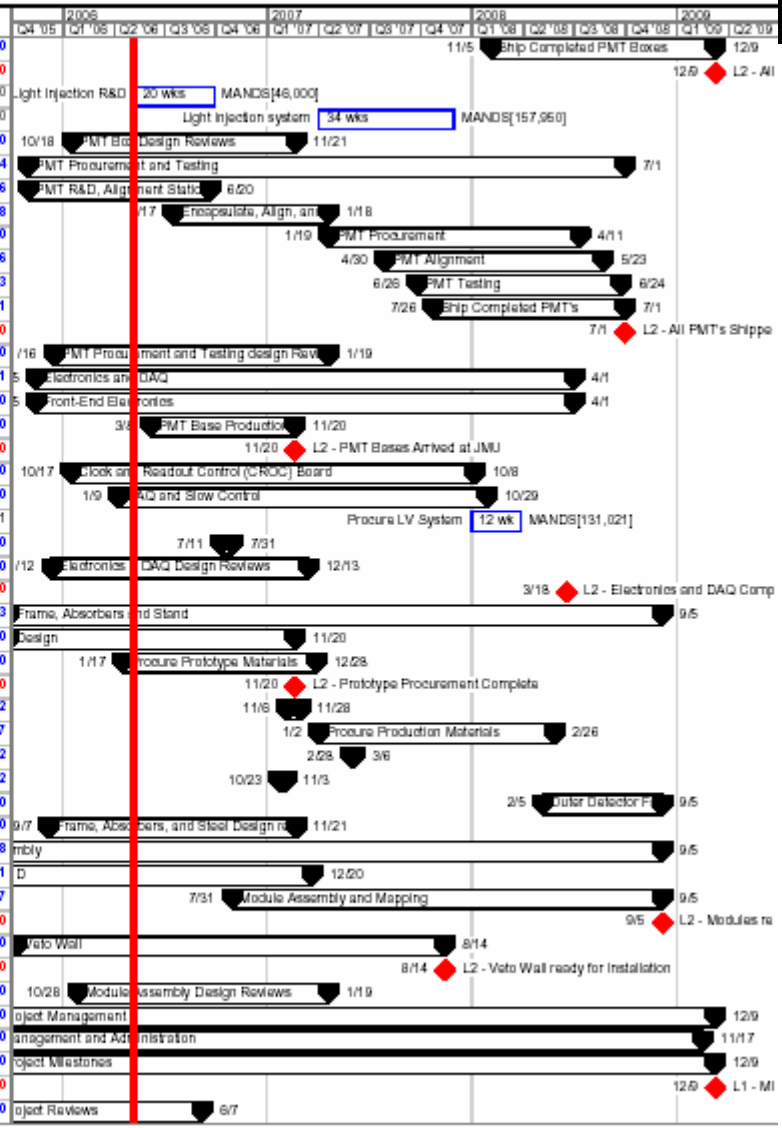
Schedule Last Saved: 2/6/06
Print Date: 2/7/06

Page 1

Baseline Range

MINERvA Costs
from MINERvA_06Feb06_Scrub.mpp
Sorted by WBS Number

Task ID	WBS	Task Name	Duration	Start	Finish	Cost
458	5.3	Ship Completed PMT Boxes	55 wks	11/5/07	12/9/08	$24,600
466	5.3.8	L2 - All PMT Boxes Shipped to Fermilab	0 wks	12/9/08	12/9/08	$0
467	5.4	Light Injection R&D	20 wks	2/8/06	6/28/06	$46,000
468	5.5	Light Injection system	34 wks	1/2/07	8/30/07	$157,950
469	5.6	PMT Box Design Reviews	55.4 wks	10/18/05	11/21/06	$0
477	6	PMT Procurement and Testing	147 wks	8/1/05	7/1/08	$1,130,394
478	6.1	PMT R&D, Alignment Station, and Test Stand	44.8 wks	8/1/05	6/20/06	$107,606
493	6.2	Encapsulate, Align, and Test Initial PMT's	38 wks	4/17/06	1/18/07	$37,828
500	6.3	PMT Procurement	62 wks	1/19/07	4/11/08	$860,600
518	6.4	PMT Alignment	54 wks	4/30/07	5/23/08	$26,886
545	6.5	PMT Testing	50.2 wks	6/26/07	6/24/08	$92,963
574	6.6	Ship Completed PMT's	47 wks	7/26/07	7/1/08	$4,511
601	6.6.27	L2 - All PMT's Shipped	0 wks	7/1/08	7/1/08	$0
602	6.7	PMT Procurement and Testing design Reviews	67.2 wks	9/16/05	1/19/07	$0
609	7	Electronics and DAQ	132.2 wks	8/15/05	4/1/08	$1,002,891
610	7.1	Front-End Electronics	132.2 wks	8/15/05	4/1/08	$572,750
648	7.1.6	PMT Base Production	36.2 wks	3/8/06	11/20/06	$20,000
657	7.1.6.9	L2 - PMT Bases Arrived at JMU	0 wks	11/20/06	11/20/06	$0
658	7.2	Clock and Readout Control (CROC) Board	99.5 wks	10/17/05	10/8/07	$129,300
671	7.3	DAQ and Slow Control	91.6 wks	1/9/06	10/29/07	$168,920
689	7.4	Procure LV System	12 wks	10/1/07	12/27/07	$131,021
690	7.5	Ship Prototype DAQ Systems	3 wks	7/11/06	7/31/06	$900
694	7.6	Electronics & DAQ Design Reviews	63.4 wks	9/12/05	12/13/06	$0
703	7.7	L2 - Electronics and DAQ Complete	0 wks	3/18/08	3/18/08	$0
704	8	Frame, Absorbers and Stand	160.9 wks	6/27/05	9/5/08	$783,313
705	8.1	Design	71 wks	6/27/05	11/20/06	$151,400
720	8.2	Procure Prototype Materials	48.2 wks	1/17/06	12/28/06	$79,580
729	8.2.9	L2 - Prototype Procurement Complete	0 wks	11/20/06	11/20/06	$0
730	8.3	Assemble Prototype Stand in Wide Band Lab	3 wks	11/6/06	11/28/06	$15,532
734	8.4	Procure Production Materials	58 wks	1/2/07	2/26/08	$438,877
748	8.5	Installation of Wide Band Lab Equipment	1 wk	2/28/07	3/6/07	$7,932
751	8.6	Outer Detector Frame Prototyping	2 wks	10/23/06	11/3/06	$3,512
755	8.7	Outer Detector Fabrication	30 wks	2/5/08	9/5/08	$86,480
760	8.8	Frame, Absorbers, and Steel Design reviews	61.2 wks	9/7/05	11/21/06	$0
765	9	Module Assembly	181.5 wks	2/1/05	9/5/08	$651,328
766	9.1	Assembly R&D	95.6 wks	2/1/05	12/20/06	$227,821
796	9.2	Module Assembly and Mapping	105.9 wks	7/31/06	9/5/08	$347,787
812	9.2.5	L2 - Modules ready for installation	0 wks	9/5/08	9/5/08	$0
813	9.3	Veto Wall	105.8 wks	7/11/05	8/14/07	$75,720
823	9.3.4	L2 - Veto Wall ready for installation	0 wks	8/14/07	8/14/07	$0
824	9.4	Module Assembly Design Reviews	61.1 wks	10/28/05	1/19/07	$0
831	10	Project Management	177.6 wks	6/1/05	12/9/08	$495,120
832	10.1	Management and Administration	174.6 wks	6/2/05	11/17/08	$495,120
839	10.2	Project Milestones	177.4 wks	6/1/05	12/9/08	$0
846	10.2.7	L1 - MINERvA Detector Ready For Installation	0 wks	12/9/08	12/9/08	$0
847	10.3	Project Reviews	51.4 wks	6/1/05	6/7/06	$0



Schedule Last Saved: 2/6/06
Print Date: 2/7/06

MINERνA
OPMO Meeting
8 February 2006
Debbie Harris
Nancy Grossman

Project Scrubbing Status

Updated 2/6/06

WBS	BOE's							Schedule Scrubbing											
	# of tasks needing BOE's	# of tasks with BOE's as of 1/1/06	# of tasks with BOE's in new format	L2 % BOE's complete	Scrubber % BOE's Checked	BOE's Entered in MSP	BOE's Checked against MSP	# of Mile-stones	Mile-stones Checked	Mile-stones Defined		WBS Structure Checked		Task Names Checked		Summary Tasks Checked		L2 % compl.	Scrubber % compl.	Into MSP % compl.
										L2	SS	L2	SS	L2	SS	L2	SS			
1	14	8		0%				8	x	paper		x	x	x	x	x		80%		
2	3	1		0%				5				x		x		x		40%		
3	26	19		0%				25										10%		
4	9	7		0%				7										40%		
5	18	5	18	100%				6	x	x	x	x	x	x	x	x	x	80%	80%	
6	6	6		0%				8										0%		
7	18	18		0%				13										?		
8	19	2		0%				5	x	paper		x		x		x		75%		
9	21	21		0%				7		x								10%		
10	3	0		0%				8										0%		

4 of the tasks are already purchased with FY05 funds
Approximately (many combined task BOEs)

MOU/SOW Status

Institution	Document	First Draft with PI	Iterating with PI	Getting Univ. Signatures	Getting MINERvA Signatures	PPD Signoff	Mont Signoff	In Procurement	PO Issued
NIU	MOU	x	x	x	x	x	x	x	x
NIU	SOW	x	x	x	x	x	x	x	x
Rutgers	MOU	x							
Rutgers	SOW	x							
Athens	MOU	x							
Athens	SOW	x							
Irvine	MOU	x							
Irvine	SOW	x							
Pitt	MOU	x	x						
Pitt	SOW	x	x						
JMU	MOU	x							
JMU	SOW	x							
Tufts	MOU	x	x	x	x	x	x	x	
Tufts	SOW	x	x	x	x	x	x	x	
Hampton	MOU	waiting for PI input							
Hampton	SOW	waiting for PI input							
W&M	MOU	waiting for PI input							
W&M	SOW	waiting for PI input							
Rochester	MOU	x	x	x	x	x	x	x	
Rochester	SOW	x	x	x	x	x	x	x	
Argonne	MOU	x	x	x	x	x			
CD	MOU	talking to CD							
MINOS	MOU	x	x						

Other Issues

Need Feedback from OPMO on:

- Value Management document
- Configuration Management document
- Risk Management document

Need Feed back from Steve W., Joe C. on:

- Acquisition Strategy

March Shutdown

- Drip Ceiling: Waiting for approval from Jeff Irvin, about to go to the buyer in Procurement
- MINOS Power Supply move: Purchase Req is in PPD office awaiting signatures
- Have (and continue to) coordinated with MINOS on shutdown activities

R&D Progress

- WBS 1: Outer Detector Scintillator Bar Extrusion (first pass!)
- WBS 2: Ordered WLS fibers for prototype, measured light yield of glued fibers in ID scintillator (not in VST yet but soon)
- WBS 3: OD fiber routing grooves machined (test design)
- WBS 4: received DDK connectors for prototyping, started measurements on hole placement and uniformity
- WBS 5: have received milling machine. Sent a PMT box prototype to Pitt. Continued Light Injection System design work
- WBS 6: redeveloped testing plans and test stand design to allow for tests to do 40 PMT's per month at one site not two. RABBIT system migration to Athens started.
- WBS 7: PMT base made, sent to Pittsburgh, have tested noise and gains of trip chip, understood linearity at different gain levels
- WBS 8: Prototype Detector Stand design continued, MRI studies
- WBS 9: prototype assembly plans developed, revisit plane definition and H-Clip design (to hold the planes in the steel frames). Organize 2nd design workshop