



NOvA Project Status

John Cooper & Ron Ray

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Interactions with Mike Procaro

- **Initial NOvA funding profile from Glen Crawford**

CD-1 Cost Estimate for 25 kilotons																	
by WBS in K\$											M\$	Profile in M\$					
	2.1.	2.2.	2.3.	2.4.	2.5.	2.6.	2.7.	2.8.	2.9.	2.10.	SUM	MIE	R&D	R&D	PED		
FY06														6,090			
FY07	-	-	-	-	-	-	-	-	-	-	10.3	10.3		5,179	10,300		
FY08	17,240	11	6,289	4,462	3,817	9,489	2,593	-	2,916	761	47.6	30.0		384			
FY09	19,488	1,425	8,536	23,976	3,206	9,247	187	1,022	5,121	781	73.0	45.0					
FY10	1,119	14,843	8,734	19,375	4,630	3,068	46	635	5,702	801	59.0	45.0					
FY11	1,114	25,251	2,638	36	3,658	10	48	-	9,619	833	43.2	45.0					
FY12	693	177	0	-	57	4	48	-	591	407	2.0	25.0					
									new Program Support		2.4			0.8			
	80,000										TOTALS	237.4	200.3	~ 10	11.7		

- **SO:** Will migrate to 20 kt starting in a couple of weeks
 - Kuraray visit next week (Ron Ray, Carl Bromberg, Brajesh Choudhary)
 - Contributions from U of Minn? (Marvin?)
 - Contributions from Italy? (next slide)
- **Then,** attempt to match profile
 - will be difficult, Cooperative Agreement eats the “first” \$ 50 M...
 - U of Minn forward funding? (Marvin?)



Discussions with Italians

- May 2 Phone meeting with M. Morandin & L. Ristori
 - With Feldman, Messier, Cooper
- Italian meeting on May 17 might resolve question of participation
 - They will report our mutual understanding that they could do the following:
 - Pick up Data Concentrator boards (325) after CDiv does initial design and 10 boards, possibly re-design....
 - Do Slow Controls (HV,...)
 - Pick up some Fiber R&D tasks in parallel with US groups
 - Take major responsibility for Near Detector
 - Build 50% of Integration Prototype Near Detector in Italy



Status of Documents

	Critical Decision Prerequisites	Current Status	Notes
CD-1	Conceptual Design Report	Done	
	Acquisition Strategy	In progress	Draft complete. Several iterations with M. Procaro.
	Baseline range & Cost Estimates and Resource Loaded Schedule	Done	Done at CD1 level.
	Draft Configuration Management Document	Done	Done at CD1 level. CM manager identified.
	Preliminary Project Management Plan (PMP)	Done	Done at CD1 level. Some funding profile details still needed.
	Preliminary Hazard Analysis Report & NEPA	Done	
	Preliminary Project Execution Plan (PEP)	Done	Sent to S. Webster & M. Procaro.
	Preliminary Risk Management Plan	Done	Uploaded to docdb
	Project Data Sheet for design	Done	OHEP
	Verification of mission need (NuSAG?)	Done	Positive report from NuSAG
	PARS Reporting		Plan to begin monthly reporting ~May '06 (Narrative)
CD-2	Preliminary Design (Detector TDR)		See 6-1 of DOE M 413.3 (3-28-03), "Preliminary Design" level (Title I, ~ 20-35% complete) vs. Conceptual design (5%)
	Advanced Preliminary Design (Building)		part of TDR
	Baseline Cost Estimates and Resource Loaded Schedule		Will move to 20 kt version after Kuraray visit. Have a preliminary budget profile from DOE.
	Final configuration Management Document		need to finalize preliminary
	Final Project Management Plan (PMP)		need to finalize preliminary
	National Environmental Policy Act documentation		from Project, Keith Schuh will take lead Keith working on EA draft, has 2 of 6 or 7 chapters
	Draft Preliminary Safety Analysis Report		Harry Ferguson has a draft, Keith is looking at it
	Final Design & Procurement Packages for Long Lead Time Items		no LLP, therefore no packages
	Performance Management System Document (EVMS)		Suzanne Pasek is writing this Has LCLS & BTeV documents, about 50 pages, will steal for 1st draft
	Review of contractor project management system		Ed's timeline shows this in May
	Final Project Execution Plan (PEP) and performance baseline		need finalize preliminary which is still draft at CD-1
	Final Risk Management Plan		need to finalize preliminary
	Independent cost estimate (part of EIR?)		This is part of the EIR process
	Project Data Sheet for construction		not needed unless a Line Item
	Verification step?		P5 reports in September? Probably part of process (Procaro)
Performance Baseline External Independent Review		in October, but could slide a couple of months in an MIE scenario	



Sufficient Project Personnel?

- Some identified needs
 - Administrative support high level full time Req almost in system? (Elaine Phillips)
 - Help for monthly report startup
 - More engineering on Block Raiser
 - Final design, staged design allowing test phase? Dave Pushka & Vic Guarino taking a few weeks to go back to basics before proceeding
 - More PPD effort
 - More engineering & help on Near Detector ???
 - Installation transport, containment, fire protection, mobility
 - Have Karen Kephart, **losing Rob Plunkett**, have ANL engineers (Really losing Plunkett is rumor)
 - Leon Beverly? John Voirin? Both familiar with shaft & tunnel. ?????
 - Some decisions on blending Visit to Renkert Oil April 27
possible blending in Minneapolis
Still a **long** way from concluding this could
work without substantial risk to performance
 - **Then** work on structure, containment, pump skid specification
 - Involve PPD process control group?
 - \$ for FESS on “design–build”
 - QA person, part time probably OK for now..... No progress
 - Electronics infrastructure and Slow Controls Discussed May 2
 - Italy for Slow controls, but when?
 - Leon Beverly for infrastructure? ????



Status of formal EA process

- PIF submitted
- EENF on my desk since April 20,
waiting for today's discussion