



NOvA Project Status

May 15, 2007

John Cooper

Ron Ray

Nancy Grossman



CD-2 Worklist, Cooperative Agreement

NOVA Work List for CD-2 <i>(red means new since last version)</i>				Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
Cooperative Agreement							
				30-Sep-06	6-Oct-06	30-Oct-06	
				15-Oct-06	17-Nov-06	20-Nov-06	
				31-Oct-06	1-Dec-06	1-Dec-06	RGU not stipulated
					31-Jan-07	31-Jan-07	
				1-Nov-06	15-Mar-07	16-Apr-07	DNFA signed.
							Statement of Work draft iterations.....
							Need letter for Regents action by ~ May 18. Marvin assembling paper: EAW, letter from Pepin, email from Mike, SWPP, draft USDOE wetlands permit, access road and building drawing packages Marvin to draft MOU on CA with Fermilab based on existing consensus MOU on Project Manager
				16-Mar-07			
				15-Jan-07	1-Jul-07		want to fund \$1M starting July 1
							(not needed for CD-2 review)
							(but do need for CD-2 sign-off)



CD-2 Worklist, NEPA and EA

NOVA Work List for CD-2 (red means new since last version)		Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
NEPA					
	Scoping Meeting	22-Jun-06		22-Jun-06	
	Environmental Impacts Analysis Plan and 5 point timeline	29-Jun-06		20-Jul-06	
	NEPA timeline in Envir. Impacts Analysis Plan				
	Determine EA (vs EIS or Categorical Exclusion)	22-Jun-07		22-Jun-06	Siebach to Livengood
	Notify Illinois, Wisconsin, Minnesota of EA intent	15-Jul-06		1-Aug-06	letters from Livengood
	1st draft EA completed	1-Nov-06	4-Jan-07	6-Jan-07	DOE review asks for revision
	2nd draft EA completed		3-Apr-07	3-Apr-07	still depends on EAW / RGU
	2nd draft comments back from DOE team			19-Apr-07	Met with NEPA team on 272 comments, resolved some, raised others
	3rd draft EA completed		15-Jun-07		crude estimated date for next revision
	final EA ready	1-Dec-06	14-Jun-07		
	end State / Public Comment period	1-Jan-07	1-Aug-07		not required for CD-2 REVIEW
	FONSI drafted	1-Apr-07	15-Aug-07		not required for CD-2 REVIEW
	FONSI issued	1-Jun-07	17-Sep-07		not required for CD-2 REVIEW
					but do need for CD-3a sign-off
	Minnesota Part				
	Minnesota EAW for Ash River ready for EA	2-Jan-07		21-Dec-06	
	U of Minn to check with St.Louis County that OK with UM as RGU				UM talked to St.L Cnty Head of Planning 4/16, agreed letter would be drafted by UM lawyer, not yet done
	U of Minn to get letter of reliance from S E H				decided to go with 3rd party review
	Alternate to letter of reliance is third party hire to review EAW	1-May-07			hiring Barr Eng on our \$, expect report on May 30
	Some official CA notification in place before consulting Bd of Regents	1-May-07			will not propose to Regents without this. An email exists.
	First meeting of Bd of Regents on RGU question, no decision	11-May-07	11-May-07		
	RGU (Responsible Government Unit) in place (2nd Regents mtg)	15-Jan-07	11-Jun-07		Assumes CA notification sent before this
	Send EAW to EQB	1-Apr-07	14-Jun-07		EQB submission deadline is June 25 for July 2 publication, need this action for CD-2 review
	EQB Monitor publish date	26-Mar-07	2-Jul-07		EQB follows preset deadlines for pub.
	End 30 day comment period on EAW	15-Jan-07	1-Aug-07		
	RGU response to comments	1-Mar-07	8-Aug-07		not needed for CD-2 review
	End 30 day judicial appeal period	1-Apr-07	7-Sep-07		not needed for CD-2 review
	RGU notice of decision published in the EQB Monitor	21-Apr-07	17-Sep-07		not needed for CD-2 review
					Would need for -3a.
	Wetland Permit Processing by USACE	1-Apr-07	1-Oct-07		Need for construction, not for CD-2 review



CD-2 Worklist, ANU

NOvA Work List for CD-2

(red means new since last version)

	Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
Accelerator & NuMI Upgrades				
Morph Campaign into Project				
GPP moved off project	17-Jan-07		24-Jan-07	justification letter done and agreed to
R&D + Ops / MIE split done	17-Jan-07		30-Jan-07	complete
ON/Off project split done	17-Jan-07		30-Jan-07	complete
CDR done	31-Jan-07		31-Jan-07	will stand alone next to NOvA CDR
CD-1 Cost and Schedule RANGE complete	31-Jan-07		31-Jan-07	
Hazard Analysis done	31-Jan-07		7-Feb-07	
Move to Open Plan				
	16-Mar-07		23-Mar-07	minor glitches, mostly went fine
Move to NOvA Docdb				
	15-Mar-07		18-Mar-07	~ 280 documents moved over
Technical				
Beamline design near final			15-Apr-07	
Kicker designs completed enough to define ceramic beam tubes needed			30-Mar-07	
Determine preliminary cooling needs for ANU			20-Feb-07	
Determine best dates for the shutdowns (Accelerator Upgrades & NuMI)	4-May-07			This may be hard to meet, but a good goal.
Scope of TDR Defined (on/off project and IL/EL designs to cost defined)	31-Jan-07		31-Jan-07	
TDR				
Draft Update NOvA TDR "Overview" sections to include ANU	1-Mar-07		19-Feb-07	
draft TDR ANU chapter done	15-Mar-07		21-Mar-07	
"final" version back to Project Office control	30-Mar-07	3-May-07	14-May-07	128 pages, need to clean up references.
Cost & Schedule R&D part done (all but resource leveling)	30-Mar-07		13-Apr-07	done except resource leveling and reviewing
Cost & Schedule Construction part done (all but resource leveling)	16-Apr-07		13-Apr-07	done except resource leveling and reviewing
Cost & Schedule Resource Leveling Done	4-May-07	16-May-07		We are about as good as we are going to get for the DR. Will do more for DOE review.
Risk assessment done	13-Apr-07	3-May-07	14-May-07	done, although haven't entered opportunities...
BOEs done	15-Mar-07	20-Apr-07		Checking BOEs against Open Plan

Question on MIE in Cost & Schedule:
Will assume start Sept 1-15 for now



CD-2 Worklist, Site and Building

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Site and Building					
Ash River Site					
	EAW update, draft from SEH	1-Nov-06	1-Dec-06	4-Dec-06	received SEH consultant draft, will iterate
	final EAW	2-Jan-07		21-Dec-06	
	updated EAW	1-May-07		4-May-07	fixed 4/30 errors. Done.
	Wetland Permit Application prepared	1-Dec-06	7-Apr-07	19-Apr-07	Have first draft, 21 pages. Still need wetlands purchase justification details. And RGU.
	Site Prep 100% design package ready	1-Dec-06	1-May-07	19-Apr-07	41 drawings of the road
Other Sites					
	EAW	1-Jul-07	30-Sep-07		"Advanced Technical Design" ? no longer matters with unsolicited proposal
Building					
	Independent Cost & Schedule Review	15-Sep-06	1-Sep-06	14-Sep-06	
	Decide overburden construction method	15-Oct-06		31-Oct-06	related to overburden thickness
	Final conceptual design ready for 30% design effort	15-Oct-06		31-Oct-06	
	Second pass, updated conceptual design ready	16-Apr-07		19-Apr-07	60 drawings, just enough to get to estimators
	Second pass, Three Outside Independent Cost & Schedule Reviews	31-May-07	NOTE late date		One=9/06 firm, 2nd & 3rd will be Minn. firms
	30% Drawings	15-Dec-06	15-May-07	19-Apr-07	60 drawings, in house + outside drafting
TDR					
	Second draft based on Project Office first draft of Oct 17	9-Nov-06		7-Nov-06	
	"final" version back to Project Office control	9-Mar-07		6-Mar-07	34 pgs, need update to final building design
	Cost & Schedule R&D part done	30-Mar-07		8-Mar-07	
	Cost & Schedule Construction part done	16-Apr-07			First pass complete: waiting for internal cost estimate, update of beneficial occupancy date
	Risk assessment done	15-Apr-07		1-Mar-07	Most in place.
	BOEs done	15-May-07			Many in place.

How to treat access road design ?

schedule critical path



CD-2 Worklist, Liquid Scintillator

NOvA Work List for CD-2 <small>(red means new since last version)</small>		Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
Liquid Scintillator					
	Tests of commercial Tintometer	21-Jul-06		16-Aug-06	tagged, sent on to Indiana for tests, 7/17
	Fermilab blending model description & cost	15-Aug-06	15-Nov-06	29-Nov-06	have "Fermilab response" to blending RFI
	issue RFI for off-site blending	1-Aug-06	31-Oct-06	10-Nov-06	following 11/3 consultant advice on bid list
	RFI responses for off-site blending	1-Sep-06	30-Nov-06	30-Nov-06	8 responses, meeting tomorrow to sort it out
	Decide on TDR and C&S blending model	14-Dec-06		7-Dec-06	TDR will have toll blending in Chicago area with Fermilab on-site blending as a backup.
	evaluate waveshifter concentration	15-Aug-06		16-Aug-06	light output vs. concentration
	evaluate pseudocumene concentration	15-Aug-06		1-Apr-06	CDR info good, additional meas in progress
	decide waveshifter/pseudocumene to match fiber diameter	9-Aug-06	13-Oct-06	26-Oct-06	No scintillator change, only fiber & PVC
	Consultant measurement of aerosol flamability	15-Jan-07		1-Feb-07	Can't ignite over wide range of droplet sizes with 10J spark
	Consultant measurement of flash point	15-May-07			requested by Steve Dixon
	TDR				
	Second draft based on Project Office first draft of Oct 17	9-Nov-06		23-Jan-07	
	"final" version back to Project Office control	9-Mar-07		23-Mar-07	31 pages, updated version 4/27 following discussions
	Cost & Schedule R&D part done	30-Mar-07		27-Apr-07	
	Cost & Schedule Construction part done	16-Apr-07			Bill and Stuart have the main tasks set up, need to revise resources
	Risk assessment done	15-Apr-07			
	BOEs done	15-May-07			



CD-2 Worklist, Fiber

NOvA Work List for CD-2 <small>(red means new since last version)</small>		Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
Wavelength Shifting Fiber					
	Updated Kuraray quote	1-Jun-06	1-Jul-06	6-Jul-06	
	evaluate fiber diameter	1-Aug-06	13-Oct-06		
	attenuation length of 0.7 mm fiber	15-Sep-06	30-Oct-06	24-Oct-06	OK, 17% acceptance loss, 1-2% atten. loss
	attenuation length of 0.6 mm fiber	30-Sep-06	30-Oct-06	24-Oct-06	not OK, 34% accept loss, 10% atten. Loss
	decide fiber diameter	9-Aug-06	30-Oct-06	26-Oct-06	0.7 mm with thicker cladding
	decide K27 waveshifter concentration (range is 150 - 750 ppm)	9-Feb-07	15-Jun-07		confused by data, 250 ppm looks low, Kuraray agrees something was wrong with the 250 ppm. New samples came 5/6, more expected on 5/21
	Need Procurement (?) help to avoid 5-8% duty on import	1-Oct-07			Advertised in FedBizOpps. Dealing with questions.
	TDR				
	Second draft based on Project Office first draft of Oct 17	9-Nov-06		7-Feb-07	
	latest draft			2-Apr-07	Current draft requires measurements from additional R&D fiber to be delivered May 1
	"final" version back to Project Office control	9-Mar-07			Carl iterating draft after discussion with John/Ron on April 12
	Cost & Schedule R&D part done	30-Mar-07		12-Apr-07	done
	Cost & Schedule Construction part done	16-Apr-07			No progress, but this one won't change much from CD-1
	Risk assessment done	15-Apr-07			
	BOEs done	15-May-07			

Won't resolve by Director's review



CD-2 Worklist, PVC extrusions

NOVA Work List for CD-2 (red means new since last version)		Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
PVC Extrusions					
Rutile TiO2 extrusions					
	Issue RFP for 70,000 lb test resin + full detector option	5-Jun-06		23-Jun-06	but will have to do best & final, NOVA-2 clog
	RFP responses for resin	5-Jun-06	21-Jul-06	21-Jul-06	able to update cost estimate with this info
	Start modifications of rutile resin	1-Oct-06		16-Oct-06	Runs in Oct, Nov, Jan
	End modifications of rutile resin	8-Oct-06		21-Nov-06	N-24 selected as baseline resin
	Measure mechanical properties of rutile mixture in 16 cells	30-Sep-06	31-Dec-06	1-Jan-07	strength, creep, ... needed for structure FEA
	Issue RFP for 70,000 lb rutile resin, BEST and FINAL	1-Sep-06	26-Dec-06	11-Jan-07	N-24
	Order the 70,000 lb for 3500 m production		26-Dec-06	30-Jan-07	
	Start production, 3500 m of 16 cell horizontal material in rutile	4-Aug-06	13-Mar-07	13-Mar-07	14 day effort truncated since 2nd vendor resin failed
	Measure variations in rutile 16 cell material (width, thickness,...)	27-Mar-07			data in hand, need analysis in TDR for structure details
Anatase TiO2 extrusions					
	Order first anatase versions of rutile resins	25-Sep-06	15-Sep-06	18-Sep-06	got N-20 and N-23
	First test of anatase TiO2	7-Sep-06	25-Sep-06	3-Oct-06	light output measurements show 15% gain
	Start modifications of anatase resin		21-Nov-06	21-Nov-06	Runs in Nov, Jan, Feb
	End modifications of anatase resin			14-Feb-07	15%, 17%, and 18% versions all work
	Measure mechanical properties of anatase mixture in 16 cells	30-Sep-06	31-Dec-06	1-Jan-07	strength, creep, ... needed for structure FEA
	Order 30,000 lb resin for 1500 m of 16 cell material in anatase	15-Aug-06	1-Apr-07	27-Apr-07	April 17 test of N-27 OK, ordered 130,000 lbs, this is 15%
	Start production 1500 m of 16 cell horizontal material in anatase	15-Apr-07			
Vertical Extrusion die (50% thicker walls & webs)					
	Issue P.O. to modify existing die for vertical extrusions	1-Sep-06		24-Aug-06	Will be a 1 month window with no die.
	Die returns after modification for vertical extrusions	15-Jan-06	1-Jun-07		die not available during May
	Production extrusion of thicker vertical material	15-Jun-07			
	Decide on TDR baseline resin: rutile or anatase	15-Oct-06	30-Oct-06	26-Oct-06	Anatase, but detailed mix still unresolved
	Final 16 vs 32 cell decision			28-Sep-06	Plan is 16+16 = 32, only adhesive in question
	Devcon adhesive tests of 32 cell from two 16 cell objects	21-Aug-06		21-Aug-06	ANL ES&H: Devcon-60 volatiles OK, Jan 24
	RF welding test to make a 32 cell from two 16 cell objects	1-Nov-06		27-Oct-06	got first sample, abandoned this path Nov 9
TDR					
	Second draft based on Project Office first draft of Oct 17	9-Nov-06		12-Jan-07	
	"final" version back to Project Office control	9-Mar-07		15-Apr-07	still missing some parts, e.g. extrusion variations above, but mostly there
	Cost & Schedule R&D part done	30-Mar-07		12-Apr-07	done
	Cost & Schedule Construction part done	16-Apr-07			Rich & Bill have main tasks settled, revisions to resources next
	Risk assessment done	15-Apr-07			
	BOEs done	15-May-07			



CD-2 Worklist, PVC Modules

NOvA Work List for CD-2 <i>(red means new since last version)</i>		Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
PVC Modules					
	evaluate 0.7 mm fiber fragility in Module Assembly	15-Sep-06		18-Sep-06	quantitative evaluation says OK on 10/24/06
	evaluate 0.6 mm fiber fragility in Module Assembly	22-Sep-06		5-Oct-06	~ OK, but worries remain
	test black PVC for conductivity	15-Sep-06		5-Dec-06	Not conductive enough. Insert a wire?
	final grounding scheme decided	9-Feb-07	15-Mar-07		Aeorsol study indicates grounding unnecessary?
	final endplate design	31-Aug-06	15-Oct-06	18-Oct-06	
	final manifold design	31-Aug-06	15-Oct-06	18-Oct-06	
	adhesive choice	30-Sep-06	15-Dec-06	15-Dec-06	DP-190 next to scintillator plus Plastic Welder for strength
	adhesive vs. RF welding	1-Dec-06	1-Apr-07	20-Nov-06	adhesive in TDR
	factory stringing machine	1-Oct-06	1-Nov-06	14-Nov-06	internal review approved design
	factory flycutting machine	1-Oct-06		15-Jul-06	MINOS flycutter tested successfully
	factory gluing machine	1-Nov-06	15-Dec-06	15-Dec-06	pneumatic, so easy
	Time & Motion studies with 16 cell, 12 ft(early) & 53 ft(later) objects	15-Dec-06	15-Feb-07	9-Feb-07	73% based on T&M, still need 53 ft handling
	Building selected for Factory #1 at Fermilab	22-Dec-06			need for TDR, want to say WideBand Lab
	Cost information in hand for loading dock conversion	5-Jan-07		5-Jan-07	need for Cost & Schedule
	Cost information in hand for pallet lifting fixture	1-Apr-07			
	Laboratory agrees with factory building selection	19-Jan-07		6-Mar-07	Wideband
TDR					
	Second draft based on Project Office first draft of Oct 17	9-Nov-06		13-Dec-06	
	"final" version back to Project Office control	9-Mar-07		18-Mar-07	Ken, 71 pages, needs more on Fermilab factory
	Cost & Schedule R&D part done	30-Mar-07			Still not closed, some changes incorporated but not yet checked
	Cost & Schedule Construction part done	16-Apr-07			Bill is setting up the main tasks, asking Ken to check after done.
	Risk assessment done	15-Apr-07			
	BOEs done	15-May-07			



CD-2 Worklist, Electronics & DAQ

NOvA Work List for CD-2 <small>(red means new since last version)</small>		Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
Electronics					
	Receive 1st 10 APDs from Hamamatsu	1-Oct-06	5-Jan-07	6-Jan-07	as expected, some dead pixels, but performance of working pixels OK
	Receive 2nd 10 APDs from Hamamatsu	1-Mar-07	30-Mar-07	3-Apr-07	got the next 10, testing in process
	Get updated "target price" of APDs from Hamamatsu	1-Nov-06	??		all pixels work, but dark currents higher
	completed studies of front end ASIC	10-Aug-06		28-Aug-06	follows test of 2nd 10 delivery
	Start testing of Front End Board prototype 2	1-Dec-07	1-Jan-07	9-Feb-07	Fermilab tests done, packaging for user tests
	Front End Board prototype 2 testing complete	6-Oct-06	15-Mar-07	3-Apr-07	1 under test, 4 more in assembly
	Cooling scheme choice for TDR: water or R-134a	1-Oct-06	1-Nov-06	26-Oct-06	performance met design goals.
	Outside review of cooling design	1-Nov-06		17-Nov-07	water
	TDR				But will iterate for revised design
	Second draft based on Project Office first draft of Oct 17	9-Nov-06		6-Nov-06	
	"final" version back to Project Office control	9-Mar-07		27-Mar-07	now more complete, 29 vs. initial 24 pgs
	Cost & Schedule R&D part done	30-Mar-07		27-Apr-07	
	Cost & Schedule Construction part done	16-Apr-07			Bill & Leon have agreed on the main tasks. Revisions to resources yet to come.
	Risk assessment done	15-Apr-07			
	BOEs done	15-May-07			
Data Acquisition					
	prototype Data Concentrator boards ready to test	1-Jan-07		1-Feb-07	first board of 5
	prototype Data Concentrator tests complete	15-Dec-06	1-Apr-07	18-Apr-07	1 board tested, still testing others, memory problem fixed (unterminated address lines)
	TDR				
	Second draft based on Project Office first draft of Oct 17	9-Nov-06		6-Nov-07	
	"final" version back to Project Office control	9-Mar-07		27-Mar-07	More complete, also 29 pages.
	Cost & Schedule R&D part done	30-Mar-07		13-Apr-07	done
	Cost & Schedule Construction part done	16-Apr-07			Bill & Leon have agreed on the main tasks. Revisions to resources yet to come.
	Risk assessment done	15-Apr-07			
	BOEs done	15-May-07			



CD-2 Worklist, Near Detector

NOVA Work List for CD-2 <i>(red means new since last version)</i>		Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
Near Assembly					
	Initial design of mechanical structure	19-Sep-06		19-Sep-06	have initial write-up, now revising
	Initial design of mechanical systems	19-Sep-06		19-Sep-06	have initial write-up, now revising
	Near design at TDR level	1-Nov-06		22-Nov-06	have 2nd draft of TDR chapter 15
	Cost information in hand for excavation schemes and rotation schemes	22-Dec-06		18-Dec-06	(still missing a NOVA fixture cost estimate)
	Lab support of decision on excavation in the tunnel	19-Jan-07		20-Mar-07	condition is that we must get out of 1/2 of tunnel without compromising 100% containment
	TDR				
	Second draft based on Project Office first draft of Oct 17	9-Nov-06		9-Nov-06	
	latest draft			6-Feb-07	waiting for tunnel decision
	"final" version back to Project Office control	9-Mar-07	1-May-07		April 27 Review concluded new cavern needed. Final cost estimates are higher than expected. No update to TDR yet available.
	Cost & Schedule R&D part done	30-Mar-07		15-Mar-07	done
	Cost & Schedule Construction part done	16-Apr-07			Peter and Bill have talked.
	Risk assessment done	15-Apr-07			
	BOEs done	15-May-07			

Near angle, length
was one of the first
written down

Ron: Cost of excavation



CD-2 Worklist, Far Detector Assembly

NOvA Work List for CD-2 <small>(red means new since last version)</small>		Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
Far Assembly					
	Validation of plane adhesive choice	16-May-06		11-Jul-06	3M-2216 initial choice revised to Devcon-60 on Feb 12
	Tests of 3 plane assemblies with 3M2216 and 16-cell extrusions	22-Sep-06	6-Oct-06	19-Oct-06	Held at 80 psi
	Tests of 3 plane assemblies with Devcon Plastic Welder and 16-cell extrusions	22-Sep-06	2-Jan-07		in progress, 11 plane test
	RF welding, plane to plane, 4 plane test at Ashland	31-Oct-06	1-Dec-06	27-Oct-06	have first sample
	RF welding, 3 plane assembly to compare			9-Nov-06	RF welding eliminated, Emabond withdraws
	settle baseline installation procedures	27-Jul-06	5-Oct-06	5-Oct-06	have initial write-up, now revising
	Validation of structural design	17-Aug-06	7-Nov-06		ongoing internal review in progress. TDR summarizes current state. Several FEAs to go. Will continue after reviews.
	Initial design of access system for top of detector	30-Sep-06	19-Oct-06	31-Oct-06	linked to building design. Concrete ==> rolling platforms, now the baseline.
	Initial design of light tightening scheme	3-Oct-06	31-Jan-07	9-Feb-07	Paint identified.
	Initial design of scintillator filling scheme	26-Sep-06		26-Sep-06	linked to building design. Concrete ==> rolling platforms, now the baseline.
	final scintillator overflow tank design	5-Dec-06		5-Dec-06	task moved from modules to assembly
	Block Raiser design review	5-Dec-06	12-Dec-06	12-Dec-06	Block Pivoter selected, must iterate forks & baseplate, requires more PVC FEA.
	Designs of mechanical systems & tooling	8-Jan-07	15-Mar-07		working goal for structure and pivoter
	TDR				
	Second draft based on Project Office first draft of Oct 17	9-Nov-06		9-Nov-06	
	"final" version back to Project Office control	23-Mar-07		23-Mar-07	143 pages in April 9 update, still missing a few sections/figs
	Cost & Schedule R&D part done	30-Mar-07		15-Mar-07	done
	Cost & Schedule Construction part done	16-Apr-07			Pat and Bill have agreed on main tasks, revision to resources needed.
	Risk assessment done	15-Apr-07			
	BOEs done	15-May-07			

Structure is risk #1
Extensively documented
Form recently updated



CD-2 Worklist, Project Management

NOVA Work List for CD-2 <small>(red means new since last version)</small>		Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
Project Management					
	final Project Execution Plan	1-Aug-06	31-Jan-07	8-Feb-07	last proj part, Cost by L2
	draft of PMP including the Cooperative Agreement	2-Jan-07	31-Jan-07	16-Feb-07	includes org charts for CA. Needs additions on Eng Review, Org Charts, Milestones
	final Project Management Plan	12-Jan-07			
	final Configuration Management Document	12-Jan-07			Elaine looking at ANU relative to plan
	final Risk Management Plan	12-Jan-07		26-Dec-07	
	Risk Registry done	13-Dec-06		13-Dec-06	have Excel version, examining WelcomRisk
	draft Procurement Plan (partial)	1-Aug-06		29-Aug-06	request from Lutha
	final Procurement Plan	21-Jan-07		20-Dec-06	1/18 DOE response that it is OK, add ANU?
	draft Performance Management System Document (EVMS)	21-Jul-06		23-Aug-06	NOVA-doc-1084 (lab-wide plan)
	final Performance Management System Document (EVMS)	19-Jan-07			Suzanne working on NOVA specific doc
	QA Plan - update CD-1 QA appendix into standalone plan	31-Jan-07	31-Jan-07	29-Apr-07	Revised Feb 22 version to align with 414.1c.
	draft PSAD	1-Apr-06	1-May-07		had draft at CD-1, Keith has started update
	Security Vulnerability Assessment Report	18-Sep-06		18-Sep-06	Needed only for nuclear facilities but done
	Cyber Security Plan			16-Oct-06	Steve Webster: not needed if not IT project
	draft doc on High Performance Sustainable Bldg considerations	13-Sep-06		13-Sep-06	FESS Sustainable Design Review Procedure
	final doc on High Performance Sustainable Bldg considerations				LEED checklist by project team @ CD-3
	Begin monthly reports	1-May-06		27-Jun-06	May 2006 report finished June 27,2006

Trying to catch up.
Admin problem
Done through Jan, Elaine Phillips has Feb
March and April in bits and pieces, missing Ken Heller's part



CD-2 Worklist, Project Management, part 2

NOVA Work List for CD-2 <small>(red means new since last version)</small>		Original Estimated Finish Date	Current Estimate of Finish Date	Actual Finish Date	comments
Project Management					
	1st draft Technical Design Report (blanks identified)	1-Oct-06	6-Oct-06	17-Oct-06	
	2nd draft Technical Design Report, Chapters other than L2 work				
	Ch 1 Executive Summary	20-Jan-07	6-Apr-07	29-Apr-07	John, needs a few fixes
	Ch 2 Using the NuMI Beam	9-Nov-06	9-Mar-07	19-Mar-07	Mark, needs work to agree with ANU
	Ch 3 Updated Science Case	9-Nov-06	9-Mar-07	13-Apr-07	Gary done, Mark: 4 small sections to go
	Ch 4 Scientific Design Criteria	9-Nov-06	9-Mar-07	11-Apr-07	Mark, needs ANU criterion
	Ch 5 Overview of NOVA Design	9-Nov-06	9-Mar-07	14-May-07	John, needs review by others
	Ch 6 Performance of NOVA Design	9-Nov-06	9-Mar-07		Still in flux. Cooper, Mualem, Shanahan
	Ch 7 WBS structure	9-Nov-06	6-Apr-07		Ron has R&D done except ANU
	Ch 18 Cost, Schedule, Scope	20-Jan-07	6-Apr-07		John
	Appendix A: Guide to Other NOVA Documents	20-Jan-07	9-Mar-07	2-Apr-07	Ron done, but points at draft documents
	final Technical Design Report	15-Dec-06	14-May-07		final updates, final edit by Project Office will have some missing sections
	update R&D portion of C&S	30-Sep-06	11-Dec-06	15-Dec-06	needs modifications, needs ANU
	final R&D portion of C&S	15-Feb-07	30-Mar-07		Hoped to close by 5/1. STILL NOT CLOSED
	draft construction 20 kt Cost & Schedule matching 2005 funding profile	10-Aug-06		15-Aug-06	"match" is approximate
	2nd draft construction 18 kt C & S following technical decisions & 2006 profile	1-Nov-06	25-May-07		April 26: model & written guidance to L2s. Had hoped to complete by May 15 but...
	3rd draft construction 18 kt C&S, adjust to profile	5-Dec-06	1-Jun-07		Lots of data entry to go. Will have very little time to adjust
	final Cost & Schedule	15-Dec-06	????		full BOE (partial likely, major costs in hand)

Will have draft for reviewers ~ May 25



Other Items

- Task 425 budget
 - Talked to Connee, she will work on AD part
 - Still talk of “payback”
 - Heard from CD on May 2
 - “We are working on the effort profile for the rest of the year and its associated SWF - will have that soon.”
- Collaboration Meeting next M-W
 - Will be rehearsing plenary and breakout talks