PHENIX Technical Support 2006

PHENIX
C-A Coordination

05/08/06

Don Lynch

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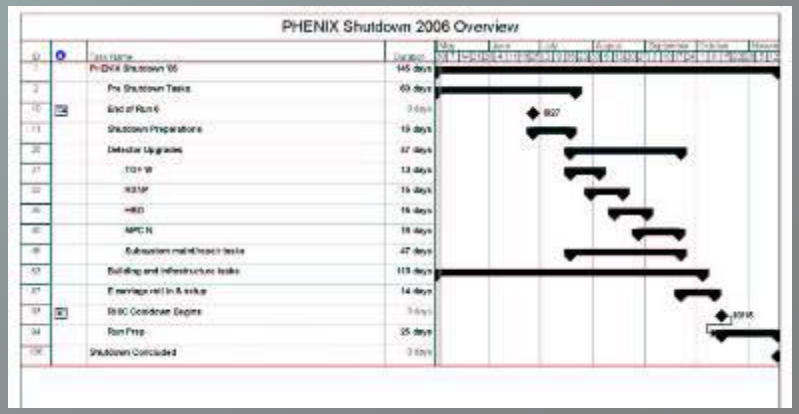
PHENIX Technical Support 2006

PHENIX Shutdown 2006

Task_Name	Duration	Start_Date	Finish_Date
PHENIX Shutdown '06	145 days	5/1/2006	11/17/2006
Pre Shutdown Tasks	60 days	5/1/2006	7/21/2006
End of Run 6	0 days	6/27/2006	6/27/2006
Shutdown Preparations	16 days	6/27/2006	7/18/2006
Detector Upgrades	47 days	7/19/2006	9/21/2006
Subsystem maint/repair tasks	47 days	7/19/2006	9/21/2006
Building and infrastructure tasks	113 days	5/1/2006	10/4/2006
E carriage roll in & setup	14 days	9/22/2006	10/11/2006
RHIC Cooldown Begins	0 days	10/16/2006	10/16/2006
Run Prep	25 days	10/16/2006	11/17/2006
Shutdown Concluded	0 days	11/17/2006	11/17/2006



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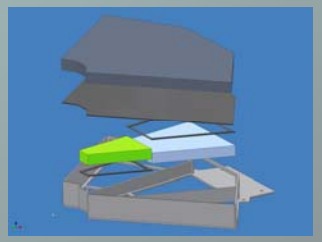
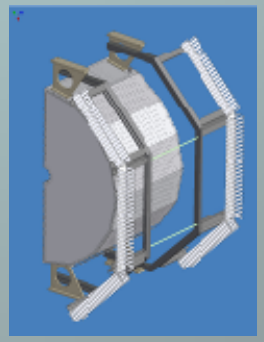
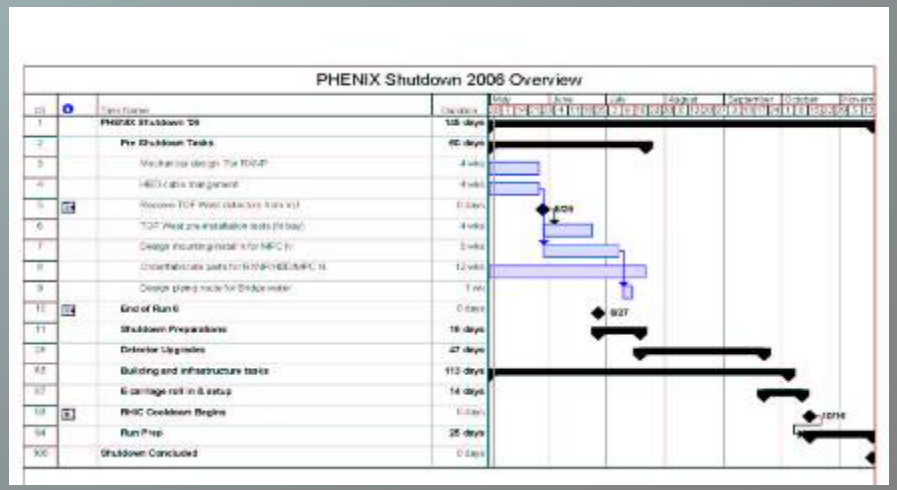
Pre Shutdown Tasks	60 days	5/1/2006	7/21/2006
Mechanical design For RXNP	4 wks	5/1/2006	5/26/2006
HBD cable mangement	4 wks	5/1/2006	5/26/2006
Receive TOF West detectors from VU	0 days	5/29/2006	5/29/2006
TOF West pre-installation tests (hi bay)	4 wks	5/29/2006	6/23/2006
Design mounting/install'n for MPC N	6 wks	5/29/2006	7/7/2006
Order/fabricate parts for RXNP/HBD/MPC N	12 wks	5/1/2006	7/21/2006
Design piping route for Bridge water	1 wk	7/10/2006	7/14/2006
End of Run 6	0 days	6/27/2006	6/27/2006







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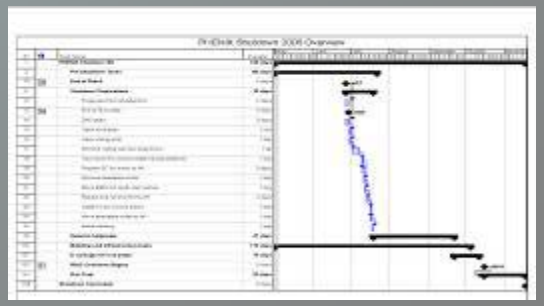
Shutdown Preparations	16 days	6/27/2006	7/18/2006
Purge gas from all detectors	2 days	6/27/2006	6/28/2006
End of Run party	0 days	6/29/2006	6/29/2006
DAQ tests	3 days	6/27/2006	6/29/2006
Open up & prep	1 day	6/30/2006	6/30/2006
Open rolling woor	1 day	6/30/2006	6/30/2006
Remove rolling wall and plug doors	1 wk	7/3/2006	7/7/2006
Take down EC access ladder & fold platforms	1 day	7/10/2006	7/10/2006
Prepare EC for move to AH	3 days	7/10/2006	7/12/2006
Remove beampipe collar	1 day	7/11/2006	7/11/2006
Move MMS full south and restrain	1 day	7/12/2006	7/12/2006
Retract and remove EC to AH	2 days	7/13/2006	7/14/2006
Install 12 ton cart on tracks	1 day	7/17/2006	7/17/2006
Move beampipe collar to AH	1 day	7/17/2006	7/17/2006
Install decking	1 day	7/18/2006	7/18/2006



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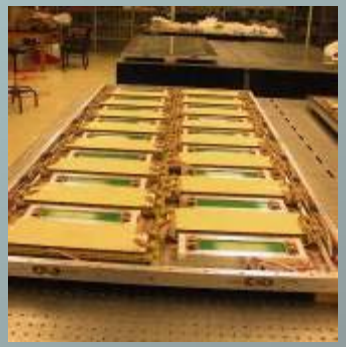
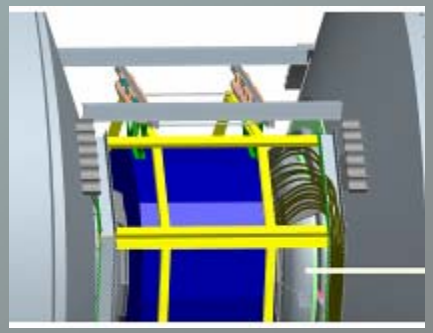
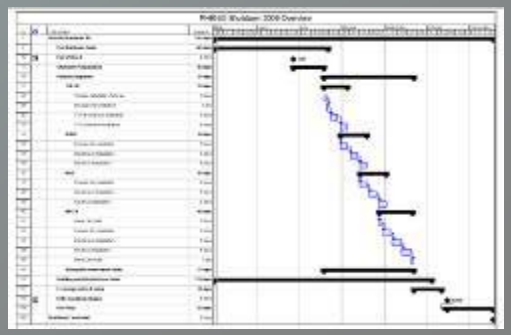
TOF W	13 days	7/19/2006	8/4/2006
Prepare installation Fixtures	2 days	7/19/2006	7/20/2006
Mockup test installation	1 day	7/21/2006	7/21/2006
TOF Mechanical installation	5 days	7/24/2006	7/28/2006
TOF Electrical Installation	5 days	7/31/2006	8/4/2006
RXNP	15 days	7/31/2006	8/18/2006
Prepare for installation	5 days	7/31/2006	8/4/2006
Mechanical installation	5 days	8/7/2006	8/11/2006
Electrical installation	5 days	8/14/2006	8/18/2006
HBD	15 days	8/14/2006	9/1/2006
Prepare for installation	5 days	8/14/2006	8/18/2006
Mechanical installation	5 days	8/21/2006	8/25/2006
Electrical installation	5 days	8/28/2006	9/1/2006
MPC N	18 days	8/28/2006	9/20/2006
Move CM south	2 days	8/28/2006	8/29/2006
Prepare for installation	5 days	8/30/2006	9/5/2006
Mechanical installation	5 days	9/6/2006	9/12/2006
Electrical installation	5 days	9/13/2006	9/19/2006
Move CM North	1 day	9/20/2006	9/20/2006







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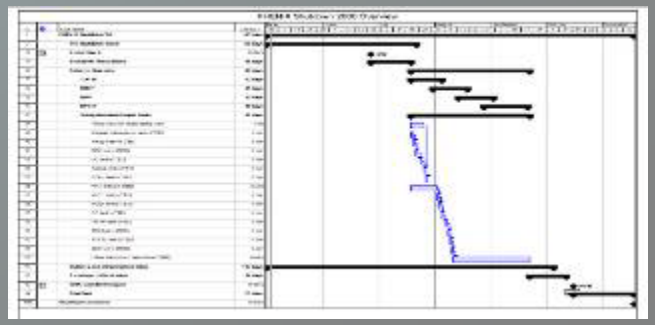
Subsystem maint/repair tasks	47 days	7/19/2006	9/21/2006
Prepare EC for subsystems work	1 wk	7/19/2006	7/25/2006
Magnet subsystems tasks (TBD)	1 day	7/19/2006	7/19/2006
Aerogel tasks (TBD)	1 day	7/20/2006	7/20/2006
BBC tasks (TBD)	1 day	7/21/2006	7/21/2006
DC tasks (TBD)	1 day	7/24/2006	7/24/2006
EmCal tasks (TBD)	1 day	7/26/2006	7/26/2006
FCAL tasks (TBD)	1 day	7/27/2006	7/27/2006
MPC S tasks (TBD)	2 wks	7/19/2006	8/1/2006
MuTr tasks (TBD)	1 day	8/2/2006	8/2/2006
MuID tasks (TBD)	1 day	8/3/2006	8/3/2006
PC tasks (TBD)	1 day	8/4/2006	8/4/2006
RICH tasks (TBD)	1 day	8/7/2006	8/7/2006
TEC tasks (TBD)	1 day	8/8/2006	8/8/2006
TOF E tasks (TBD)	1 day	8/9/2006	8/9/2006
ZDC tasks (TBD)	1 day	8/10/2006	8/10/2006
Other Subsystem tasks tasks (TBD)	6 wks	8/11/2006	9/21/2006



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Building and infrastructure tasks	113 days	5/1/2006	10/4/2006
AH infrastructure tasks	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
IR infrastructure tasks	18 days	7/17/2006	8/9/2006
Repair water lines to Bridge	1 day	7/17/2006	7/17/2006
Replace emergency fan louvres	1 wk	7/19/2006	7/25/2006
Rewire/add IR Ceiling lights on emergency power	1 wk	7/26/2006	8/1/2006
Move WC away from Wall	1 day	8/2/2006	8/2/2006
Replace WC sliding platform hoisting cables	1 wk	8/3/2006	8/9/2006
Gas Pad	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
Gas Mixing House	1 day	5/1/2006	5/1/2006
Exhaust fan maintenance	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
Rack Room	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
Counting House	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
all other PHENIX infrastructure	113 days	5/1/2006	10/4/2006
Tech area & trailer mold remediation	1 day	5/1/2006	5/1/2006
New raw materials storage container	1 day	5/1/2006	5/1/2006
Repair roof leaks	1 day	5/1/2006	5/1/2006
Install bridge access platforms from EC & eyebrow	2 days	10/3/2006	10/4/2006
TBD	1 day	5/1/2006	5/1/2006

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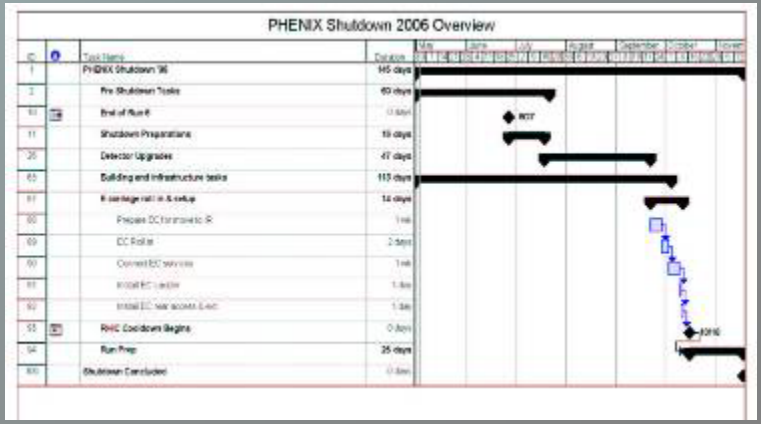
E carriage roll in & setup	14 days	9/22/2006	10/11/2006
Prepare EC for move to IR	1 wk	9/22/2006	9/28/2006
EC Roll in	2 days	9/29/2006	10/2/2006
Connect EC services	1 wk	10/3/2006	10/9/2006
Install EC Ladder	1 day	10/10/2006	10/10/2006
Install EC rear access & ext.	1 day	10/11/2006	10/11/2006
RHIC Cooldown Begins	0 days	10/16/2006	10/16/2006



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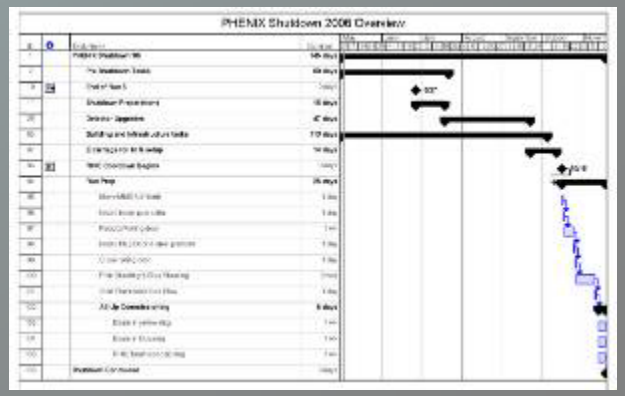
RHIC Cooldown Begins	0 days	10/16/2006	10/16/2006
Run Prep	25 days	10/16/2006	11/17/2006
Move MMS full North	1 day	10/16/2006	10/16/2006
Install beam pipe collar	1 day	10/17/2006	10/17/2006
Rebuild Rolling door	1 wk	10/18/2006	10/24/2006
Install Plug Door & steel platform	1 day	10/25/2006	10/25/2006
Close rolling door	1 day	10/26/2006	10/26/2006
Pink Sheeting & Blue Sheeting	2 wks	10/27/2006	11/9/2006
Start Flammable Gas Flow	1 day	11/10/2006	11/10/2006
All Up Commissioning	5 days	11/13/2006	11/17/2006
Beam in yellow ring	1 wk	11/13/2006	11/17/2006
Beam in blue ring	1 wk	11/13/2006	11/17/2006
RHIC beam conditioning	1 wk	11/13/2006	11/17/2006
Shutdown Concluded	0 days	11/17/2006	11/17/2006



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Shutdown 2006 key dates

- Run ends June 27
- End of Run Party June 29?
- Open Shield wall June 30
- Prep and move EC July 10
- Install TOF W (start) July 19
- Install RXNP (start) July 31
- Install HBD (start no later than) Aug 14 (possibly as early as Aug 1)
- Install MPC North (start no later than) Aug 28
- Start EC roll in Sep. 22
- Start RHIC Cooldown Oct. 15
- Start Physics data taking Nov. 17

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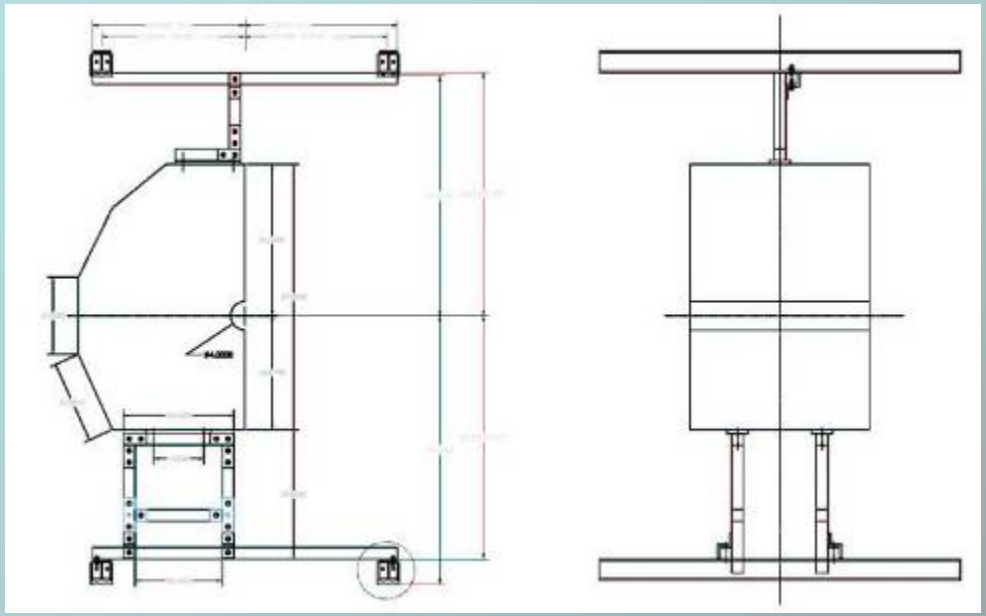
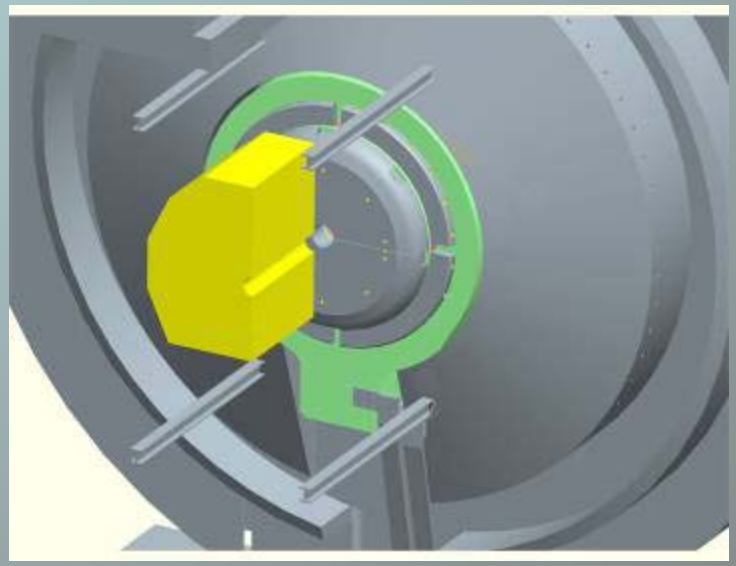
HBD Prototype Run Position Mounting



Prototype mounting supports



In run position
(mounting supports not shown)

When to take out He bag?

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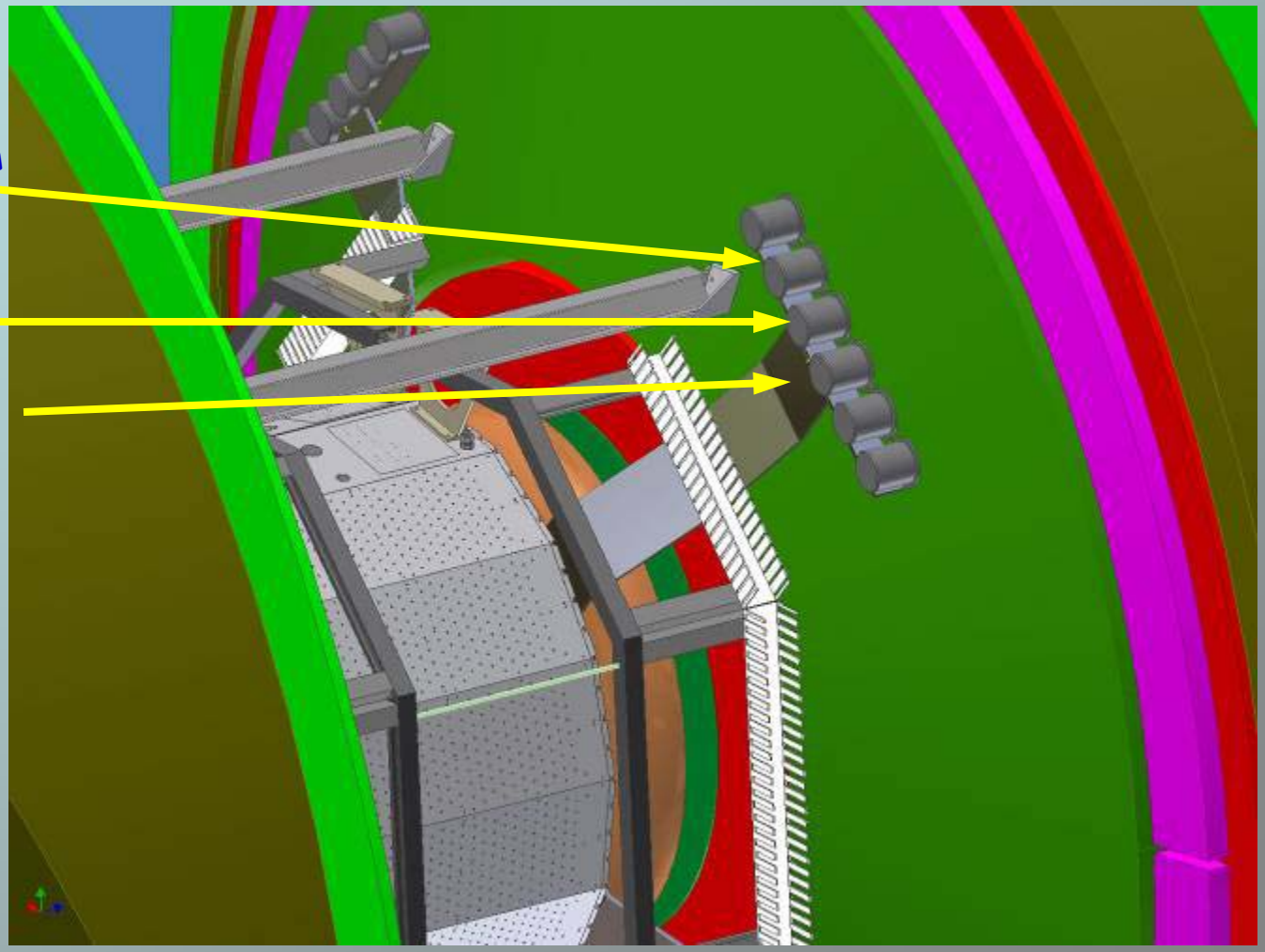
HBD & RXNP

Moved PMT's to 1300 mm max to avoid I-beams

3" PMT's

Attach arms to pole face for extra support

Still working on fiber routing/mounting/ protection



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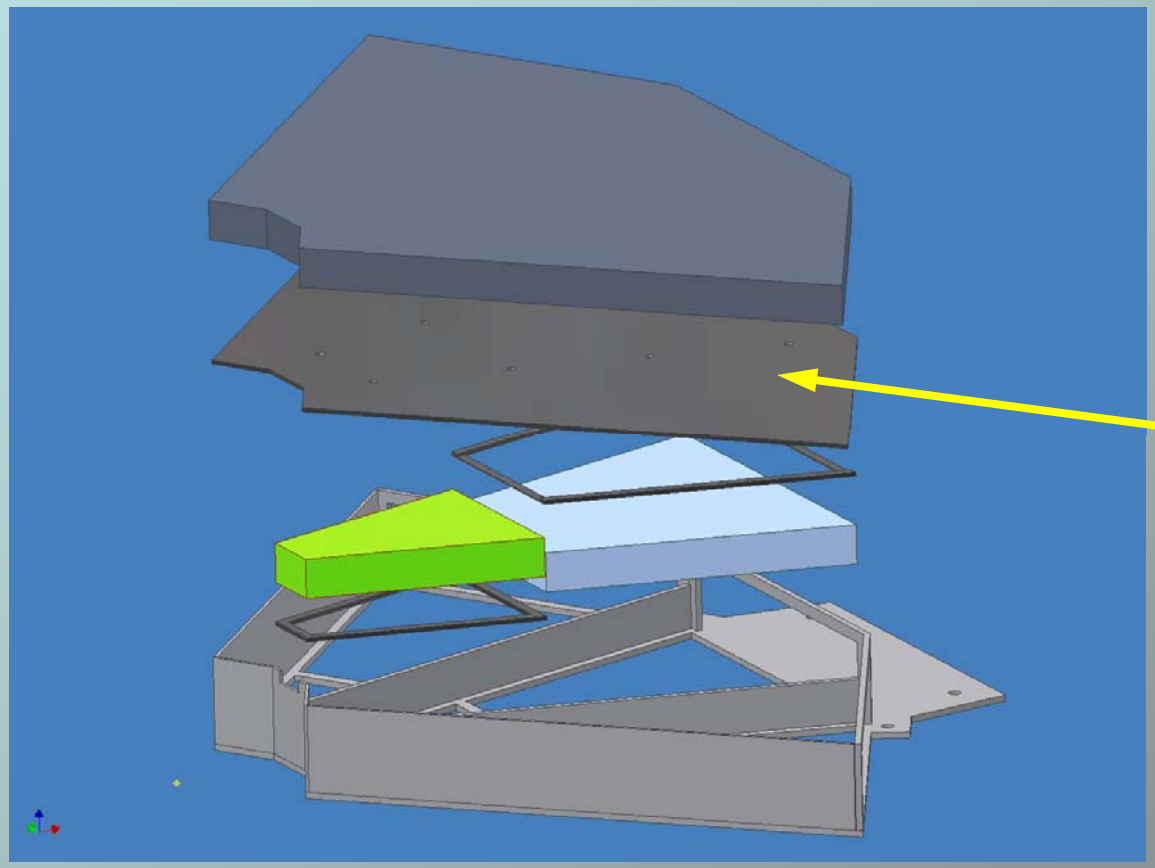
RXNP



Revised design for RXNP

Spacer holds detector together without lead

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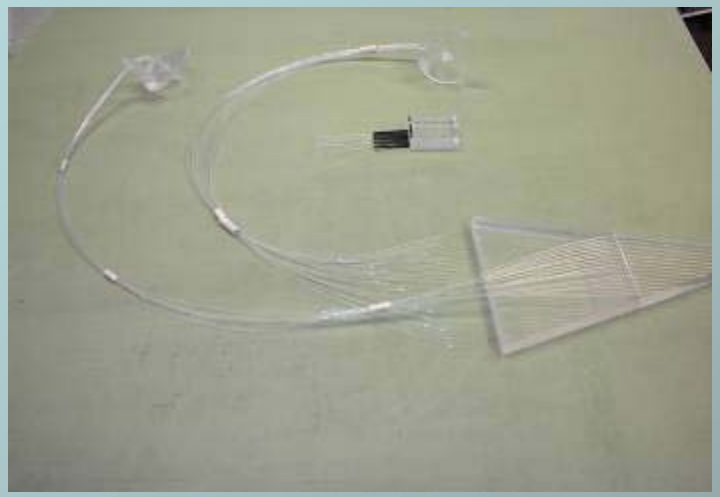
RXNP Scintillator & Fiber Prototypes



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