

# RPC Assembly & QA

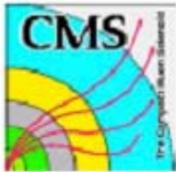
Wei Xie, RBRC

For the PHENIX Forward Muon Trigger Group

# Outline

- Assembly & QA Model
- Current Status
- Issues

# Assembly & QA (Another CMS Model)



## Process Flow for CMS RE1/2, 1/3

<http://cern.ch/cms-isr-endcap-rpc>

<http://cern.ch/rpc-endcap>

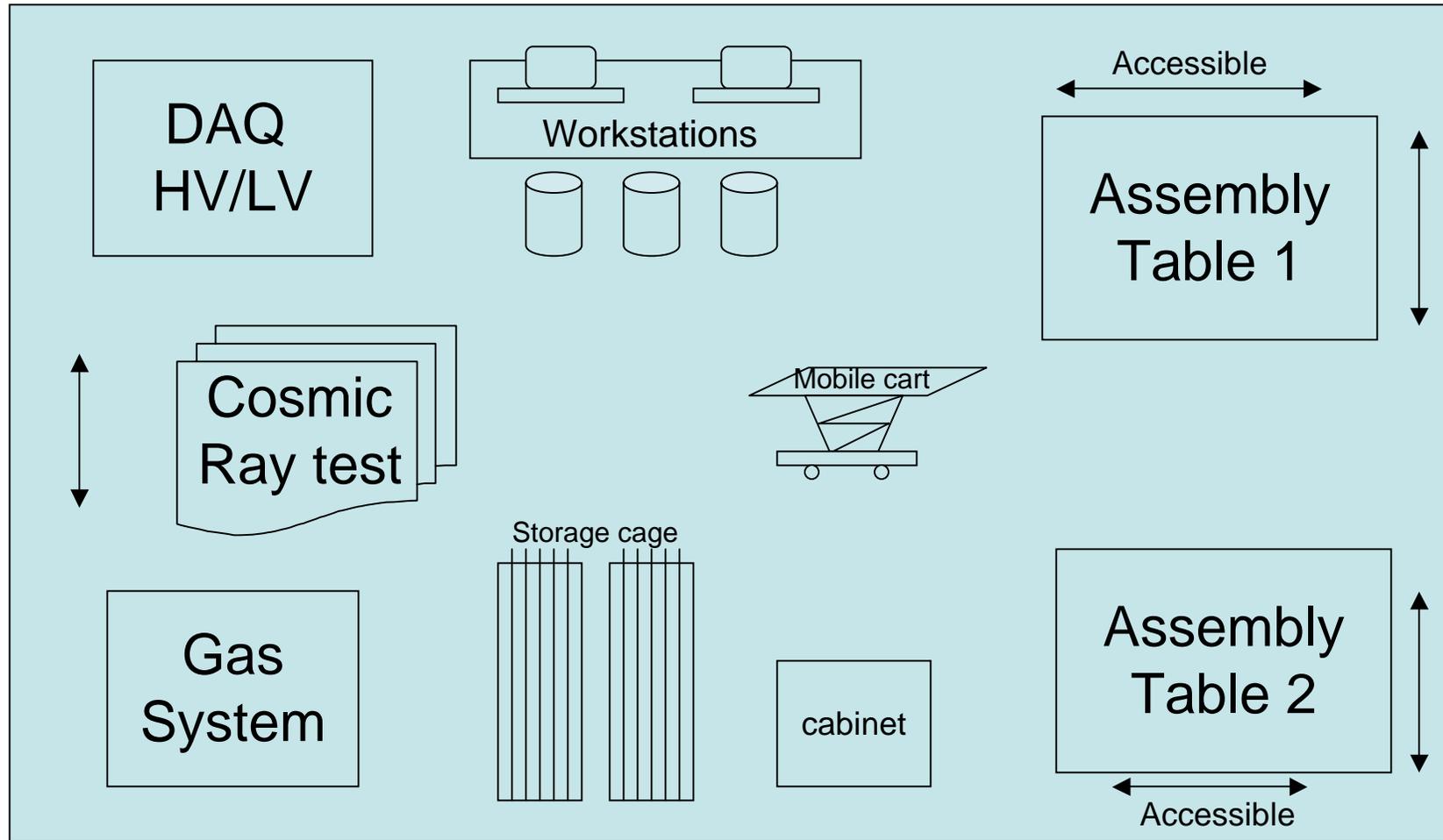


Dec 2003





# Assembly “Facility” at BNL



# Assembly Area at BNL

- The search for space was started one year ago.

ESR Form Rev. 4.1 (2005 version)

Before using a copy of this form, verify that it is an acceptable version by checking with your Experiment Review Coordinator. Double-click to change the state of a checkbox or type an "X" over the box, or paste this ☑. For help with this form, see the [ESR form FAQ](#) and the [ESRs web page](#).

**EXPERIMENT SAFETY REVIEW FORM**

**REVIEW NUMBER (supplied by ERC):**

**PRINCIPAL INVESTIGATORS:** Xiaochun He, Rusty Towell, Wei Xie **DATE:** 3/7/2006  
**GROUP:** PHENIX  
**EXT:** **E-MAIL:** xhe@gsu.edu **LIFE NUMBER:**

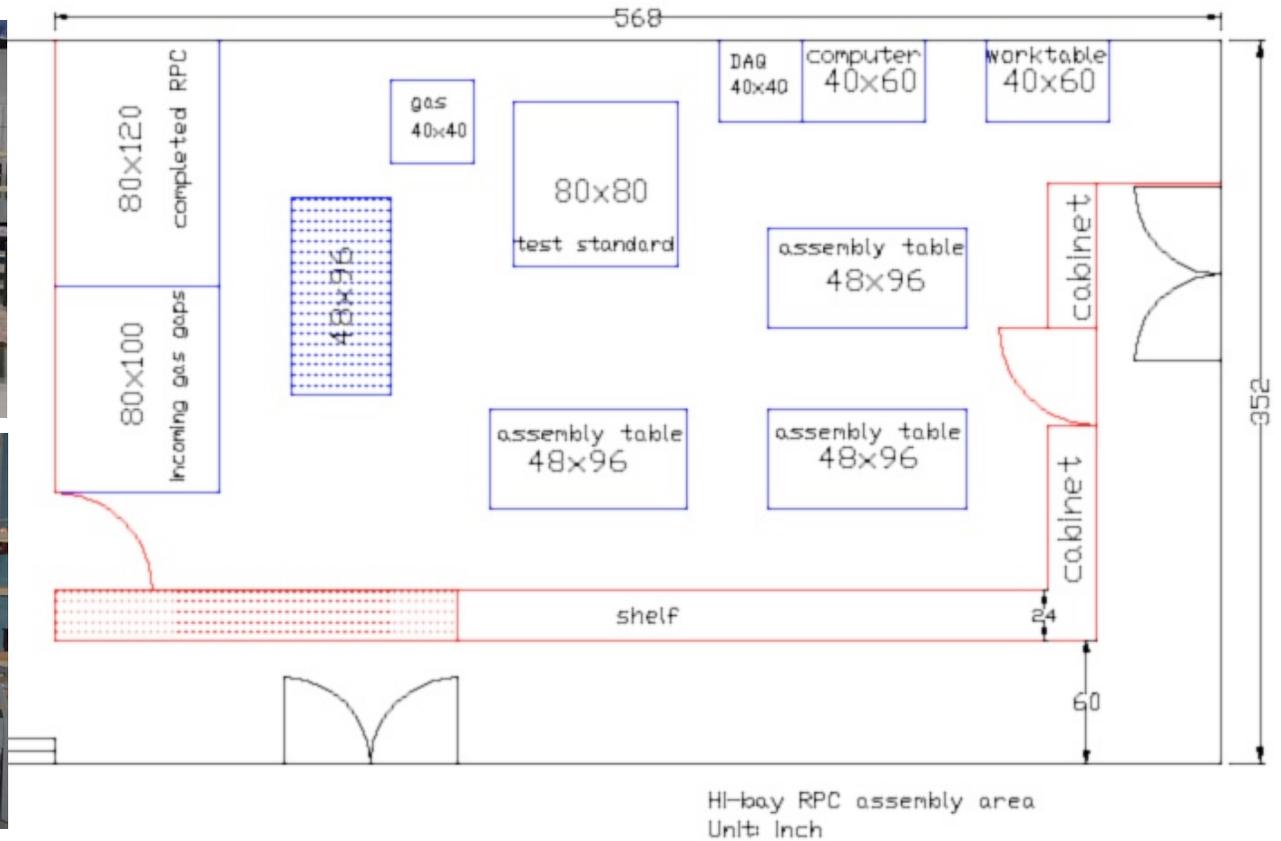
<b>Project Title:</b> PHENIX Forward RPC Assembly and Test
<b>Location(s):</b> 510 Hilbay area
<b>Proposed Start Date and Duration:</b> April 2006 through April 2009

**SIGNATURES:**

<b>Principal Investigator:</b>	<b>Date:</b>
<b>Experiment Review Coordinator:</b>	<b>Date:</b>
<b>ESRC Chairman:</b>	<b>Date:</b>
	<b>Date:</b>

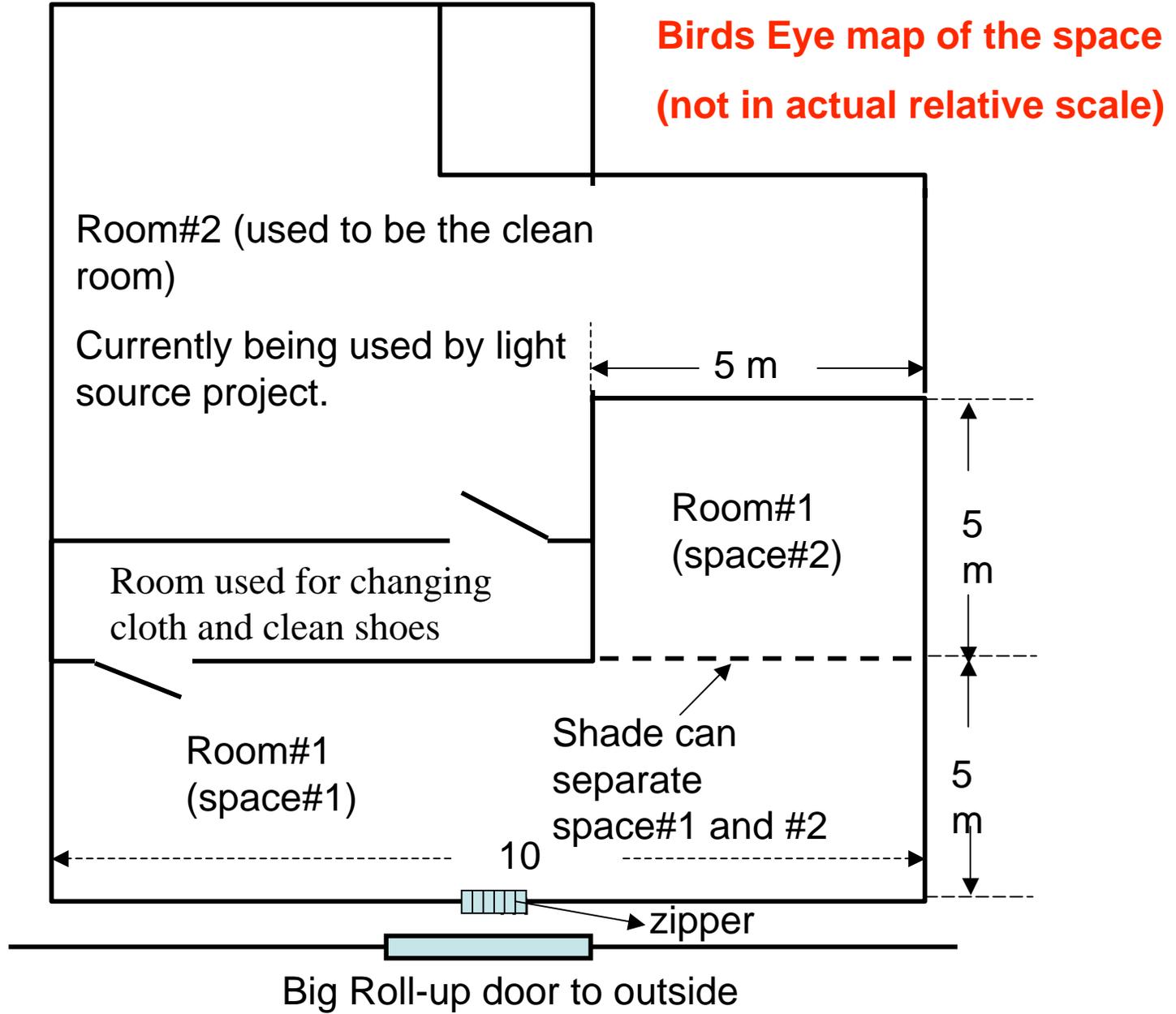
- We are actively looking for new possibility in working close with the PHENIX management.

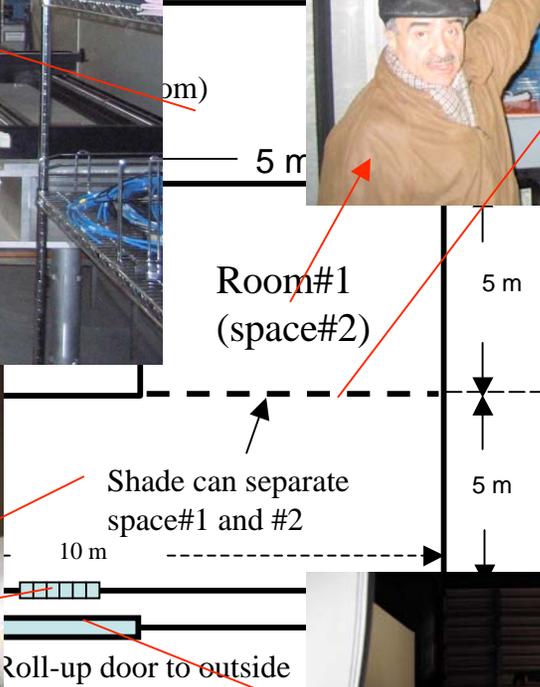
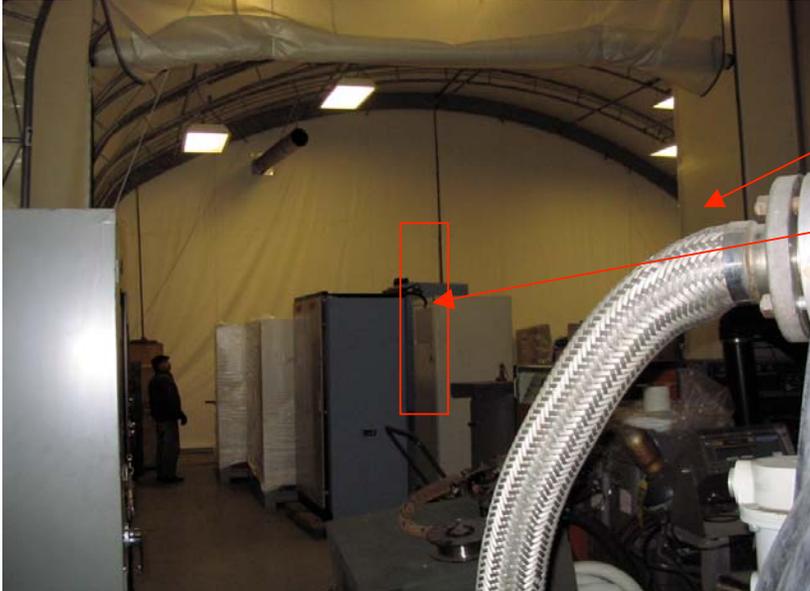
# Proposed Space Usage in Hibay



This effort was started in March 2005. Very recently, we were informed by the review committee that the space is no longer available to us.

# New Possibility Building 905





2/20/2007

PHENIX Review of Forward Muon Trigger Project

## More on Room#2



Nice table. Need to check if this can be used by us

## More on room#1



- The space is currently a storage place. Need to clean up the equipment inside it.

# Current Situation

- The space is paid by CAD.
- Room#2 is expected to be used by us but Yousef still need to discuss with the magnet division to finally secure the space.
  - The area of the space, i.e.  $\sim 75 \text{ m}^2$  is a bit smaller than what we need, i.e.  $100 \text{ m}^2$  according to the current estimate.
  - It has ventilation system. Maybe positive. Need to ask Walter for more details. I remember he is one of the people who setup the tent.
  - The room has easy access to the outside through the roll-up door.
- Room#1 is currently being occupied by the light source project in the next a few weeks but they may continue to stay there in long term future. Guidance from Yousef is that we can negotiate some space in room#1 if necessary.
- There's no crane in either room.
- There'll be possible other CAD projects that want to use 905. Yousef is in process of clarifying the case.

# Team Leads

- Wei Xie, RBRC
- Rusty Towell, Abeline Christian Univ
  - Worked on MuTr construction at BNL as a manager.
  - Big group of undergraduates
- Xiaomei Li / Yajun Mao, CIAE / PKK
  - Two tech staff members who worked on CMS at CERN will come to BNL
- Xiaochun He, GSU
  - Post-doc and students

# Other Resource for QA

- High voltage power supply (available)
- Gas system (available)
- Assembling tables, storage racks, shelves, etc need to be set up once the space is identified.

**The key issue at present time is to secure the needed Space for assembly & QA facility at BNL. People have lined up for working at the facility in mid of May 2007.**