

RICH Recovery

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MIPP Collaboration Meeting

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FNAL

What and Why

- Lost ~600 PMT's due to an FEU catching on fire
 - Poor design and assembly of PMT bases covered by flammable plastic
- Politically situation made worse
 - No temperature monitoring
 - Cooling air connected backward
 - Mixing fans were off
- Possible reasons for trouble
 - Sparking PMT's
 - Potential shorts on the base

Recovery work

- RICH panel made a list of requirements
 - Replace flammable plastic
 - Apply conformal coating to bases
 - Beef up safety devices:
 - VESDA
 - Inert atmosphere (monitor oxygen content)
 - Trip HV supply if a PMT sparks
- Almost all work has been completed
 - Lots of help from J. Kilmer & co, T. Tope, K. Kephart & techs, PPD techs
 - 75% of PMT's are in compared to original detector

Near-term plans

- Immediate to-do list
 - Reconnect ACNet controls
 - Connect APACS computer to HV interlock relay
 - Safety walk through the week of June 14
- Recommissioning tasks
 - Redo HV scans
 - Lots of PMT's spliced in, HV not always matched
 - Determine proper thresholds
 - Time detector in with tight gate