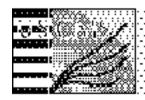


Procedures for Cable Labeling

S. Lusin
University of Wisconsin



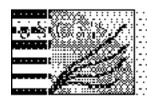
Labeling overview...

Austin Ball: proposed labeling scheme at June CMS week

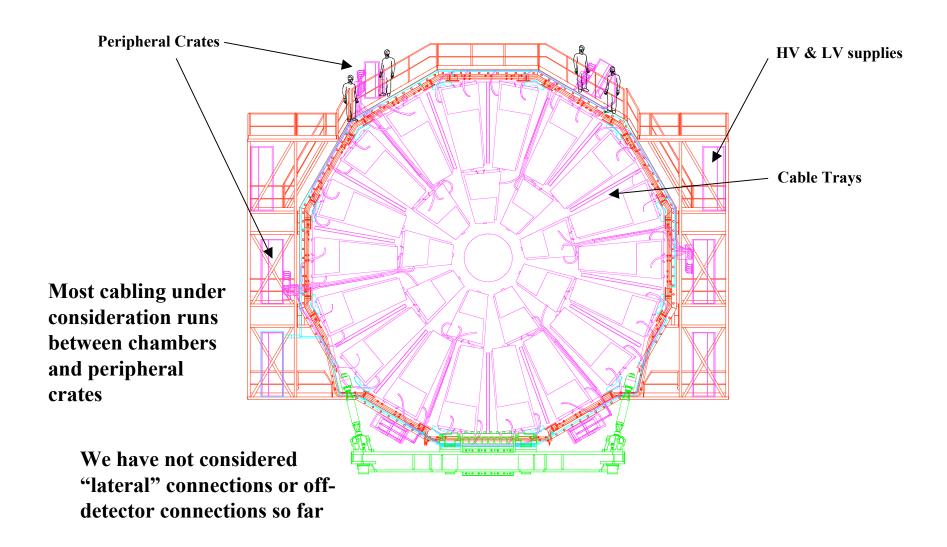
EMU group: CMS IN 2000/004, CMS IN 2002/nnn, descriptions of detector numbering schemes, extending to cable labeling

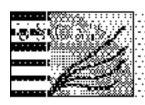
Cable Species:

- On-chamber cables
- Chamber- peripheral crate cables
- Lateral interconnects
- Readout cables



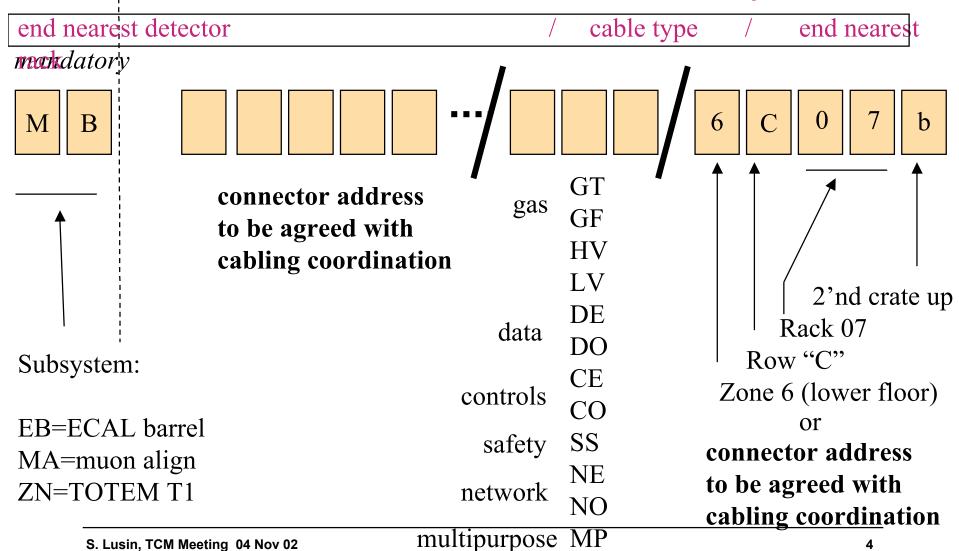
Caplagaths-YF2

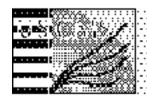




Cable labeling: visual

-from A. Ball





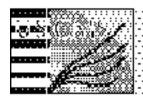
Tenesioling process ...

Emphasis in cable labeling discussions has been on label syntax, or constructing the label fields

- Can imagine many different approaches that may work
- Label fields should be constructed with global detector conventions in mind

Need to consider how the process of cabling uses the label information

- Look to prior experience- in this case CDF
 - There is one cable coordinator who is the ultimate authority on what cable actually gets strung
 - Nobody runs a cable on their own
 - The cable coordinator maintains a database of all cable connections
 - The cable coordinator generates the labels used on the cables



Cable documentation ...

The cable catalog ...

- Maintained by the cabling coordinator
- Very few people have write access to the database
- Database allows read access via web

Cabling Request Form ...

- Standardized format, submitted to cabling coordinator
- Describes cable characteristics, endpoints

Pull sheets ...

- Generated by cabling coordinator, given to cable installation technicians
- Describe cable endpoints, possibly routing
- Checked off during cable installation, returned to cabling coordinator for updating database

Cartoons ...

- Visual descriptions of clustered source and destination points for a group of cables
- Used in tandem with pull sheets



EMU Reaclout Cables

This is what a cartoon may look like ...



Ye+2.p3.c1.s3.00	CFEB xxx.2
Ye+2.p3.c1.s3.01	CFEB xxy.1
Ye+2.p3.c1.s3.02	CFEB xxy.2
Ye+2.p3.c1.s3.03	CFEB xyy.1

CSC zz.a

Cartoon describes objects to be cabled, cabling routes to use.

> In addition, could have fields to be filled in by cabling crew, fields for annotations



Ye+2.p3.c1.s3.00	CFEB xxx.2
Ye+2.p3.c1.s3.01	CFEB xxy.1
Ye+2.p3.c1.s3.02	CFEB xxy.2
Ye+2.p3.c1.s3.03	CFEB xyy.1
Ye+2.p3.c1.s3.04	CFEB xyy.2
Ye+2.p3.c1.s5.00	CFEB yyy.1
Ye+2.p3.c1.s5.01	CFEB yyy.2
Ye+2.p3.c1.s5.02	CFEB xxz.1
Ye+2.p3.c1.s5.03	CFEB xxz.2
Ye+2.p3.c1.s5.04	CFEB xzz.1
Ye+2.p3.c1.s7.00	CFEB xzz.2
Ye+2.p3.c1.s7.01	CFEB zzz.1
Ye+2.p3.c1.s7.02	CFEB zzz.2