

Electronics Installation
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Outline



- A typical installation model—a la Bagby.
- Where we are with respect to the model.
- Immediate plans.

The Model



- Understand the detector geometry, natural system divisions, electronics readout scheme.
- Generate cabling map including the source and destination of all cables based on the geometric naming convention and electronics rack locations.
- Determine cable route and install cableways.
- Prepare cables—labels/bundling.
- Execute the installation plan.

Where we are now....



- Understand the detector geometry, natural system divisions, electronics locations.
 - Detector geometry: We are installing 24 modules instrumented in sets of 4.
 - Natural division (so far) is East and West.
 - Could be based on type of modules in a set.
 - Current plan is to put everything in one rack on the East side-right if looking downstream.
 - Propose we use East/West since left/right labeling is based on looking upstream.
 - We are not installing in this direction.

Where we are now....



- Generate cabling map including the source and destination of all cables based on the geometric naming convention and electronics rack locations.
 - Gabe has a database with this information.
 - The pertinent parts need to be extracted.
 - Rack, Crate, Slot, Channel needs defined.
 - I can generate the files for label printing.
 - Need to order some labels—WBS#?

Where we are now....



- Determine cable route and install cableways.
 - 3 locations: PMT area, PMT→CROC, Rack.
 - PMT area: already has a tray-need to take a closer look to see if we can make improvements.
 - PMT→CROC: Needs horizontal, vertical, and angular trays.
 - Electronics rack: Need horizontal and vertical trays mounted on rack. Routing needs to allow for CROC replacement.



Where we are now....



- Prepare cables—labels/bundling.
 - We can apply labels as soon as we get them.
 - I haven't looked at bundling yet.
 - Perhaps the data cables are already in sets of 2??
- Execute the installation plan.
 - I suggest we get the horizontal tray installed before continuing. The vertical routing can be done if we keep in mind where the trays will be installed. Angular tray can be retrofitted.

Immediate Plans



- PMT → CROC
 - Install horizontal cable tray.
 - Determine how to mount vertical trays.
 - Develop angular bracket.
 - Order Halogen free trays and labels.
- Electronics Rack
 - Determine path, mount internal trays for fibers and PS tw pr to ext horizontal tray.
 - Determine how to mount trays on front of rack for data cables—path to ext horizontal tray.

Immediate Plans

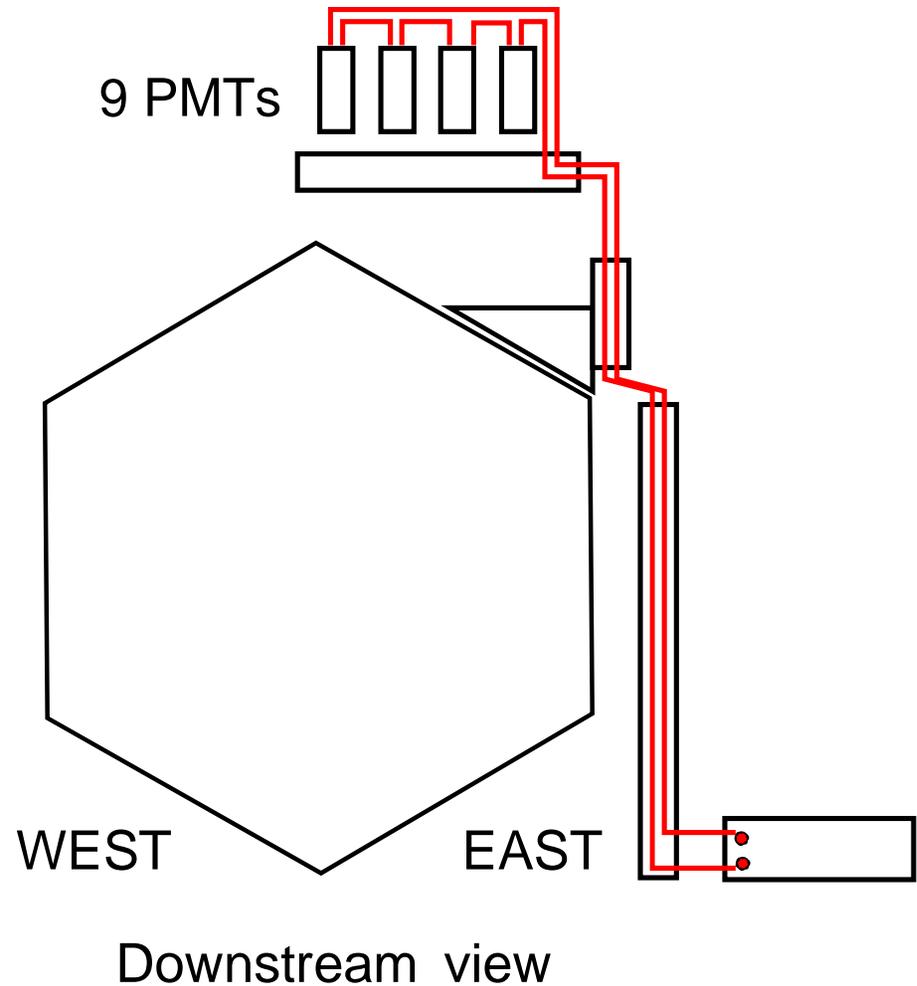


- PMT Area
 - Review routing.
- Get an all inclusive cable list w/ source-destination.
- Get list of sundry cables.

PMT → CROC



- 6 module sets
- each set (E+W) has
 - 4 data cables
 - 2 PS tw pr
 - 2 Fiber bundles



Electronics Rack

