

Re: TOF drawings

Subject: Re: TOF drawings
From: Chuck Hutton <huttonc@jlab.org>
Date: Thu, 09 Jun 2011 13:23:31 -0400
To: Paul Eugenio <eugenio@fsu.edu>
CC: Beni Zihlmann <zihlmann@jlab.org>, Ian Winger <winger@cmmp.fsu.edu>, Mark Ito <marki@jlab.org>

Here is a list of drawing numbers that have been taken out for the TOF. Some of these numbers have already been taken out so the list is not in running order.

Time of Flight assembly D00000-01-05-0000
Long TOF bar assy - D00000-01-05- 1000
Short TOF bar assy - D00000-01-05- 1001

TOF short bar detail (6cm) - D00000-01-05-2008
TOF long bar detail (6cm) - D00000-01-05-2009
TOF short bar detail (3cm) - D00000-01-05-2010

TOF lightguide detail (6cm) - D00000-01-05-2005
TOF split lightguide detail (6cm) - D00000-01-05-2011

PMT magnetic shield detail - D00000-01-05-2012
Shield mount detail - D00000-01-05-2013

There are plenty of numbers should you need more.

Chuck

On 6/3/2011 11:27 AM, Paul Eugenio wrote:

Hi Beni,

This is the email follow up from today's phone call. Ian Winger is our Physics Shop design engineer. His contact information is below.

As I understand, for the statement of work (SOW) we will need only drawings for the components of a TOF module which FSU is constructing in house. Spec sheet will be provided for vendor purchases(i.e. PMT module specs, scintillator performance specs). The component drawings needed for the SOW are listed below. The scintillator drawings are just rectangular bars. The light guide design is currently being optimized, but Ian can provide a drawing of the base design with 7cm tapered section and bend. As I mentioned over the phone, we are looking into having the machine shop machine the curvature into the light guide as opposed to heating and bending via a jig.

Ian Winger
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SOW Module component drawings:

Scintillator bars

material: Bicron BC-408/ Eljen EJ-200 equivalent

- * plastic scintillator bar: 2.54cm x 6cm x 252cm // long bar
- * plastic scintillator bar 2.54cm x 6cm x 120cm // short bar
- * plastic scintillator bar 2.54cm x 3cm x 252cm // split bar

Light Guides

material: clear cast acrylic

- * main light guides for long& short bars : 2.54x6 cross section to 4.6cm OD (see base design FSU)
- * light guide for split bar: design will follow other light guide (finalized after optimization of main light guide)

PMT Magnetic Shield

material: i DOM 1040 steel tube

- * shield 7.6cm/7.0cm OD/ID, 27cm length

Shield Mount // clamp for mounting shield to cylindrical end of light guide

- * design concept under development

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On May 31, 2011, at 12:04 PM, Beni Zihlmann wrote:

Hi Paul,
we should start setting up drawings for the TOF that are needed for the SOW.
Tim assigned Chuck Hutton as designer to the project. Can you send us the
contact of your designer at FSU so that Chuck can get in contact with him
to provide the necessary information to get things rolling.

thanks,
Beni