

## LCLS Meeting Notes

Subject: GIRDER

Date: 3/30/05

Attendees: EMIL SUSHIL BRIAN

### Action Items:

- ASSEMBLE SUPPORT FRAME WITH MIKE BRACKENS HELP
- ATTACH CUBES TO IMITATE COMPONENTS FOR LINEUP
  - USE COLUMNS EXISTING FOR LINEUP
- SUPPORT TO HOLD ONE END FROM TWO DIFFERENT UNDULATORS
- ELIMINATE GRANITE PARTS UNDER SUPPORTS
- USE STANDS UNDER EACH MOUNT
  - STEEL STANDS
  - WATER COOLING POSSIBLE
  
- TEMPERATURE GRADIENT NEEDS TO BE DEFINED
- DRAWINGS AVAILABLE FOR BASE AND MANUAL ALIGNMENT PARTS
- DANA HAS PARTS FOR MANUAL ACTUATOR
- RON DOING SUPPORT LAYOUT
- MOVING OF SUPPORTS ALLOWED SLIGHTLY
- OPTION TO LOCK MOVEMENT OF AUTOMATIC SYSTEM
  
- MAJOR REQUIREMENTS
  - PIPE SUPPORT WITH SEPARATE TOP PLATE RIGID WITH 1" BOLTS
  - SLOT BASE AND TOP PLATE AT 90° APART FOR ALIGNMENT
  - GROUT WHEN FINISHED
  - VERSIONS
    - WATER COOLED SST
    - WATER COOLED INNER SLEEVE WITH INNER EPOXY DAMPENING AREA
    - SAND FILLED
    - WRAP INSIDE WITH DAMPENING MATERIAL THEN FILL WITH EPOXY
  - NO CARBON STEEL NEAR THE MAGNET
- COST COMPARISON BETWEEN CARBON AND STAINLESS STEEL PIPE