

LCLS Meeting Notes 4/19/05

Subject:

Date: 4/19/05

Attendees:

Action Items:

- TUNNEL HEAT LOAD ANALYSIS
 - RACKS IN TUNNEL ARE WATER COOLED
- NEAR TERM OBJECTIVES
 - UNDULATOR PROTOTYPE NEEDS TO BE TESTED AND REFINED
 - JULY / AUGUST PROTOTYPE SHIPPED TO SLAC THEN SENT BACK WHEN COMPLETED
 - SHIPPING FEET TO SENT TO SLAC???
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- UNDULATOR SUPPORT SYSTEM
 - LASER ALIGNMENT TRIANGULATION METERS
 - GENERAL SPEC OF STABILITY NEEDS TO BE REVIEWED
 - STABILITY TESTING WILL BE DONE BUT NO ESTIMATE AT THIS TIME
 - +/- 1 DEGREE IN CURRENT ROOM
 - ADDING SPRING-LOADED BALLS ON THE SINGLE CAM SIDE
 - SUPPORT FOR MOTION OF UNDULATOR WHEN SHIFTED OUT
 - WIDER STANCE BROUGHT UP TO STABILIZE THE CRADLE
 - +/- 1 MICRON MOVING OR NOT OF UNDULATOR
 - SCHEDULE DOES ALLOW FOR ANOTHER ITERATION OF DESIGN BEFORE REQUIRED, IF CRITERIA IS NOT MET
 - EARTHQUAKE SUPPORT AND RESTRAINT ASKED ABOUT
- SURVEY AND ALIGNMENT
 - CONCRETE CURRING TIME
 - SETTLEMENT DATA WAS PRESENTED
 - BENCH MARKS ARE AT 10m APART FOR THE DATA
- SPEARS 3
 - REMOVE OLD FLOOR TO SANDSTONE
 - FIRST DATA WAS 2 WEEKS AFTER POUR
 - MOST SETTLEMENT WAS .3MM
 - 300 METERS FULL LENGTH
- FIXED SUPPORTS FOR UNDULATOR
 - RACK MOUNTING LOCATIONS ??????
 - WRITE QUESTIONS DOWN TO RESOLVE THESE IN A TIMELY MANOR
 - CONCEPT FOR ALIGNMENT ISSUES
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- LEVELNG SYSTEM
 - HYDROSTATIC FOR FLOOR LEVELING
 - HALF FILLED WATER PIPE SYSTEM
 - MOUNTS ON THE SIDE OF THE CRADLE
 - WIRE SYSTEM FOR VERTICAL MONITORING
 - SAG OF 7MM EXPECTED WITH NEW WIRE DESIGN
 - SUN SIDE CAN EFFECT THESE BEYOND USE
 - 2 WIRE SYSTEMS
 - ONE ON TOP OF THE BEAM TUBE IN LINE WITH THE CENTER LINE OF THE UNDULATOR
 - SECOND WIRE IS ON THE SIDE OF THE CRADLE
 - SUPPORTED ON FLOOR OR OTHER BRACKET NOT TO THE CRADLE DIRRECTLY, JUST MOVES WITH THE CRADLE
 - READ FREQUENCY IS 1 HRZ