

BNL-103913-2014-TECH AGS.SN33;BNL-103913-2014-IR

Extract 9 x 1012 Beam Into Test Channel-H10 pos.vs. CBM

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August 1973

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U.S. Department of Energy

USDOE Office of Science (SC)

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TUESDAY AUGUST 21,1933

10,33

Blumbing.

FEB BEAM COMMISSIONING STUDY

SCHEDULED 1600-2400 BLUMBERG, GLASMANN, GUTHY, KEANE, RAKA ACTUAL 1630-2400

AGS DE-TUNED FROM S.3 10¹² TO ~210¹². LOST 2 HOURS BECAUSE EID MAGNET WOULDN'T MOVE OFF RETRACTED FORMON CURTISS AND ZOUR'S FIXED THAT. THEY NOTED THEST UPSTREAM SHAFT SHOWED INDICATION OF BINDING. BEAM EXTRACTED (TOTAL INTO TEST CHANNEL WITHOUT TROUBLE WITH STRUBARD SET-UP. NOTED THAT HID MAGNET IS AN INJECTION APERTURE AT ITS STANDARD" POSITION OF UPSTREAM=2.1", DOWN STREAM = 1.9", IN AGREEMENT WITH S/25/73 OBSERVATION WHEN CBM WAS 910¹². WE MOVED MAGNET OUT TO UPSTREAM=2.6 DWN STREAM = 2.4" AND INCREASED H-SUPERPERIOD BUMP COLL CURRENTS FROM 1000 A TO 1200 A. THIS SOLVED APERTURE PROBLEM WITH NO OBVIOUS CHANGE IN EXTRACTED BEAM.

WE AGAIN SEE SOME BEAM LOSS AT WINSEL BEFORE EXTRACTION TIME. THIS EFFECT WAS SEEN LAST MAY. LOSS CAN BE REDUCED TO NEGLIGLE AMOUNT BY RAPIUS-SHIFTING.

EXTERNAL TRAJECTORY IN TEST PIPE CHECKED. WITH 21000 Å IN HIO SEPTUM SPOT IS ~1" OUTSIDE AT UIG FLAG AND ~2" OUTSIDE AT UTIGS FLAG. WE CAN EASILY CENTER SPOT AT UIG WITH HIO CURRENT CHANGE, SO BEAM LINE IS O.K.

FREQUENT TRIPS OF THE EIO SEPTUM POWER SUPPLY (VACUUN/WATER INTERLOCK) ABORTED STUDIES AT 2300. VACUUM GROUP REPORTED EIO BOX PRESSURE INCREASED TO ~310-5 mm DURING ATTEMPTS TO GET SUPPLY BACK ON. PUMP ROOM REPORTED ~45 GAL LOSS IN MAIN MAGNET WATER. LOOKS LIKE A LETAK. FINALLY, LOST 440 V POWER TO EIO SUPPLY.