

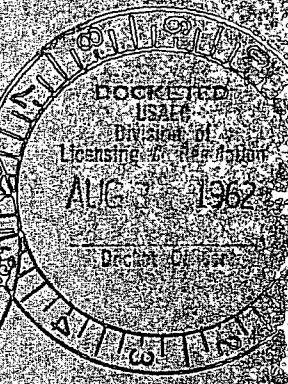
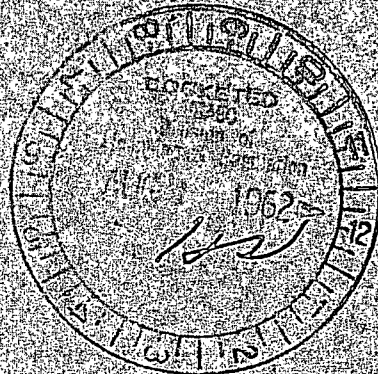
INCOMING TELEGRAM

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U.S. ATOMIC ENERGY COMMISSION
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THE FOLLOWING INFORMATION SUPPLEMENTS THAT FURNISHED TO YOU ON JULY 30 REGARDING THE STICKING OF GENERAL ELECTRIC TEST REACTOR CONTROL ROD #5. ONE BERYLLIUM FILLER PIECE WAS BROKEN DURING HANDLING ON JULY 22. THIS HAS BEEN DISCARDED. THREE OTHER BERYLLIUM PIECES WERE INSPECTED AND FOUND TO HAVE ONLY MINOR SCRATCHES AND ARE REUSABLE. A FOURTH PIECE WAS INSPECTED AND ONE OF THE PINS FASTENING THE BERYLLIUM TO THE NOSE PIECE FOUND TO BE LOOSE; THIS FILLED PIECE WILL NOT BE USED IMMEDIATELY, BUT WILL PROBABLY BE REPAIRED FOR FUTURE REUSE. NO DAMAGED FUEL SECTION WERE FOUND EXCEPT THE ONE PREVIOUSLY REPORTED. SEVEN POISON ELEMENTS WERE INSPECTED. #5 WAS FOUND TO HAVE ONE MISSING ROLLER, TWO STUCK ROLLERS AND SEVERAL MISSING SCREWS.

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ELEMENT IS BEING DISCARDED. ON #10 A SHAFT IN THE LOCKING
 MECHANISM WAS FOUND SLIGHTLY BENT BUT STILL USABLE. ON #12
 A CRACK WAS FOUND IN A PLATE AT THE FIXED ROLLER. #13 WAS IN
 HOLD CELL FOR REPAIR AT THE TIME OF THE STICKING AND WAS
 NOT IN THE REACTOR. ON THIS ELEMENT TWO CRACKS WERE FOUND AT
 LOWER ROLLER ON ONE PLATE, ONE CAM PIN WAS MISSING AND
 WAS WORN, AND ONE ROLLER PIN WAS LOOSE WHICH WERE FOUND TO BE
 RE-SPOT WELDED. WHILE DOING THIS WORK A VERY SHORT CRACK WAS CREATED
 IN THE EXTREME LOWER EDGE OF THE PLATE BY EXCESSIVE HEATING.
 EXAMINATION INDICATED THAT EVEN IF THE CRACK PROPAGATED, NO
 MATERIAL WOULD COME LOOSE AND NO OTHER DAMAGE WOULD RESULT.
 ON THIS BASIS, IT WAS DECIDED TO NOT ATTEND A REPAIR AND THUS
 NO ADDITIONAL DAMAGE. THE CRACK WAS CAREFULLY PHOTOGRAPHED
 AND WILL BE CHECKED IN FUTURE EXAMINATIONS. ON #12 THE CRACK
 WAS REPAIRED BY WELDING, AND BOTH LATCH SHAFTS WERE SPOT WELDED
 IN PLACE. ON #13, THE CRACKS WERE WELDED, BOTH CAM PINS REPLACED,
 AND THE ROLLER PIN TACK WELDED. ON #14, THE CAM PIN WAS REPLACED.
 IN THE SHOCK SECTIONS A NUMBER OF SCREWS THAT WERE TIGHT BUT
 THEIR STAKING WAS OF QUESTIONABLE EFFECTIVENESS WERE RE STAKED.
 THE ABOVE CONSTITUTES ALL OF THE REPAIRS CARRIED OUT.

DESIGN AND FABRICATION OF A NEW SET OF CONTROL RODS TO BE
 INSTALLED IN MARCH 1963. CONFIRMATION LETTER WILL FOLLOW
 CORNBLETH JR MANAGER REACTOR TECHNICAL OPERATION GENERAL
 ELECTRIC VALLECITOS ATOMIC LABORATORY PLEASANTON CALIFORNIA 945