RB DE HQTS ARE U THERE K WECARE HERE

RGR HERE COMES ONE

TWX NR719

PARAMETERMIL

ATOMIC ENERGY COMMSSION GERMANTOWN MARYLAND

1-19-67

RELAY TO REGULATORY DIVISION AT BETHESDA

ATTN MR J J SHEA

DIVISION OF REACTOR LICENSING

THIS MEMO IS TO AMPLIFY ON OUR RECOMMENDATION FOR REVIEW OF VESSEL DIMENSIONAL AND MATERIALS DATA BY THE DESIGN ANALYST AS INDICATED IN PARA 3 OF OUR 1-17-67 TWX.

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IT IS ASSUMED THAT THE FABRICATORS INTENT IS TO REPORT DIMENSIONAL DEVIATIONS' SUCH AS OFFSETS' OVALITY AND DEPARTURE FROM TRUE CIRCULAR FORM' AND OTHER FIT-UP PROBLEMS WHICH OCCUR DURING CONSTRUCTION OF THE VESSEL AND ARE BEYOND CODE LIMITS FOR DISPOSITION AXX BY THE DESIGN ANALYST. THIS REPORTING WOULD EXPECTED TO COME FROM THE QUALITY CONTROL ORGANIZATION.

HOWEVER' BECAUSE THE EFFEDT OF DIMENSIONAL DEVIATIONS ON STRESS INTENSITIES' PARTICULARLY IN COMPLEX AREAS SUCH AS NOZZLES AND REINFORCEMENTS' IS NOT ALSXXX ALWAYS EVIDENT' WE FEEL THAT THE DECISION TO REPORT THESE CONDITIONS SHOULD NOT BE LEFT ENTIRELY TO THE FIELD PERSONNEL. A TECHNICAL EVALUATION BY THE DESIGNER MIGHT BE NECESSARY MERELY TO DETERMINE IF A PROBLEM REQUIRING ANALYSIS EXSISTS

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9211300540 670119 PDR ADDCK 05000263 A PDR BEYOND THE EFFECTS IF THE CONFIGURATION OF THE SHELL ITSELF' STRESSES DUE TO EXTERNAL LOADS SUCH AS PIPING REACTIONS MIGHT BE AFFECTED' SUCH AS DUE TO MISORIENTATION OF A NOZZLE. 85 IS FOR THESE REASONS THAT WE RECOMMEND THAT ASXXX ALL DIMENSIONAL DATA BE REPORTED TO THE ANALYST' WHO ALONE HAS THE ENTIRE PICTURE' AND WHO CAN THEN DICIDE WHAT IS IMPORTANT.

WE HAVE EMPHASISED THE NEED FOR A POSITIVE DIMENSIONAL REPORTING PROCEDURE ON MONTICELLO BECAUSE OF THE DIFFICULTY IN FE-#-43#-08,& 43

RESHAPING -DISREGUARD THOSE FIGUES WILL START LINE AGAIN PROCEDURE ON MONTICELLO BECAUSE OF THE DIFFICULTY IN FE-SHA RESHAPING

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RESHAPING OF RESIZING VESSEL COMPONENTS IN THE FIELD. ADDITIONALLY' BECAUSE IN THE PAST FABRICATORS HAVE OFTEN REMIDIED ALLDIMENSINAL DEVIATIONS BY BLENDING AND MIGHT HAVE LOST SIGHT OF FITUP REQUIREMENTS SPECIFIED BY THE CODE. WHILE THESE REQUIREMENTS ARE NOW REASONABLE AND EXPLICIT IN SECTION III FOR SEAMS OF MAIN SHELLS' OTHER AREAS ARE NOT AS CLEARLY DEFINED. THUS WE FEEL THE 100 PER CENT REPORTING PROCESS IS WARRANTED.

SIMILARLY THE DESIGH ANALYST WILL BE IN THE BEST POSITION TO EVALUATE THE EFFECTS OF MATERIALS DEFECTS ON VESSEL INTEGRITY. CONSTRUCTION OF A SAFE VESSEL IS' IN A WAY' STATISTICALLY DEPENDENT UPON THE PROBABILITY THAT LESS THAN PERFECT MATERIALS' FABRICATION EFFECTS' OPERATING STRESSES AND OTHER FACTORS WILL NOT COMBINE TO CAUSE A DANGEROUS CONDITION. WE THINK THAT THE PARTICIPATION OF THE DESIGN ANALYST IN THE SELECTION AND APPLICATION OF SPECIFIC MATERIALS WHERIN DEFECTS ARE KNOWN TO EXIST' IN THE SPECIFIC VESSEL FABRICATION' WILL INCREASE THE ODDS AGAINST DANGEROUS CONDITIONS DEVELOPING ON A RANDOM EASIS.

R A LOFY

PARAMETERMIL

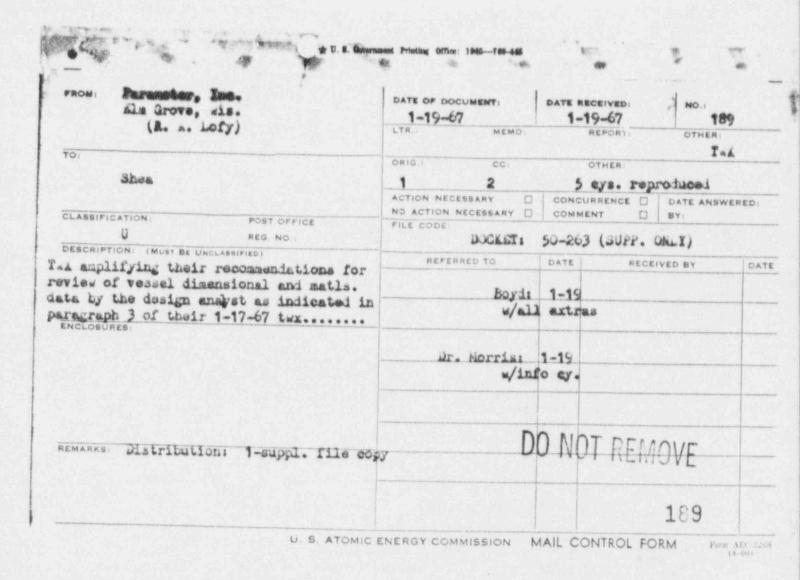
DE HQTS DID U GET THAT ALRIGHT WE FEAD U OK LEON RICKS

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