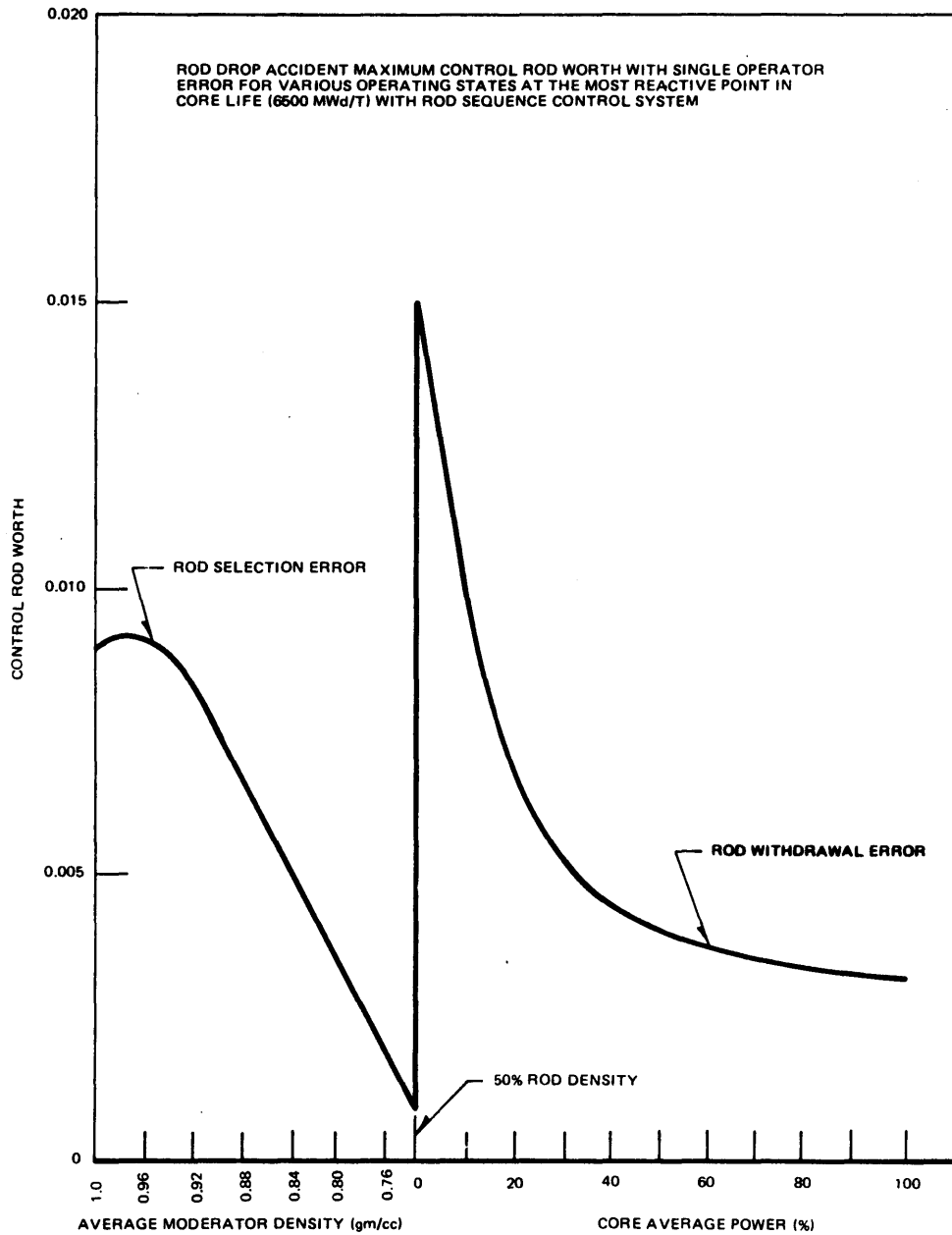


**PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

**ROD DROP ACCIDENT MAXIMUM
CONTROL ROD WORTH WITH SINGLE
OPERATOR ERROR AT BOL WITH RSCS**

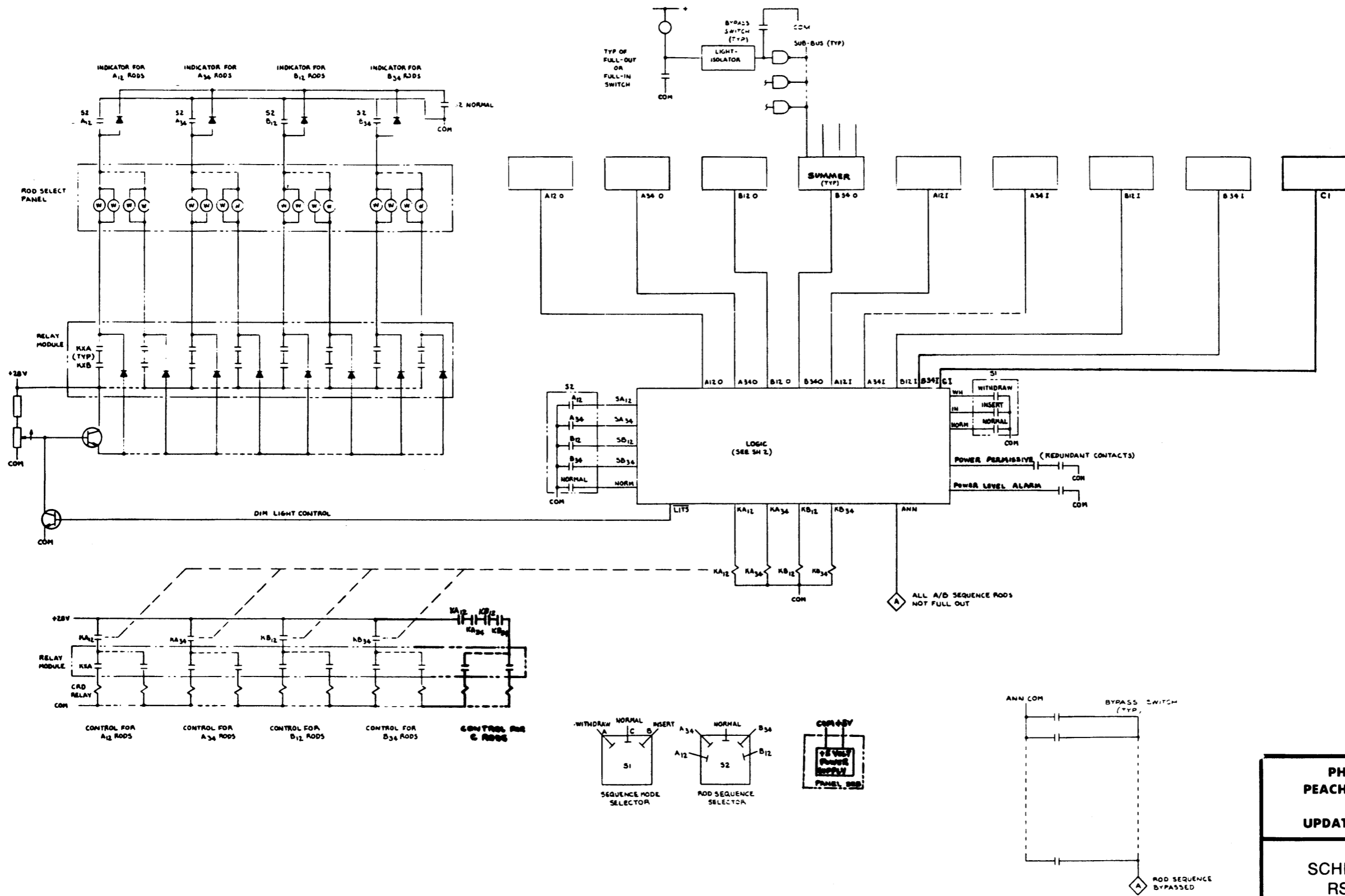
FIGURE J.4.1



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UPDATED FINAL SAFETY ANALYSIS REPORT**

**ROD DROP ACCIDENT MAXIMUM CONTROL
ROD WORTH WITH SINGLE OPERATOR
ERROR AT MOST REACTIVE POINT IN
CORE LIFE (6500 MWd/T) WITH RSCS**

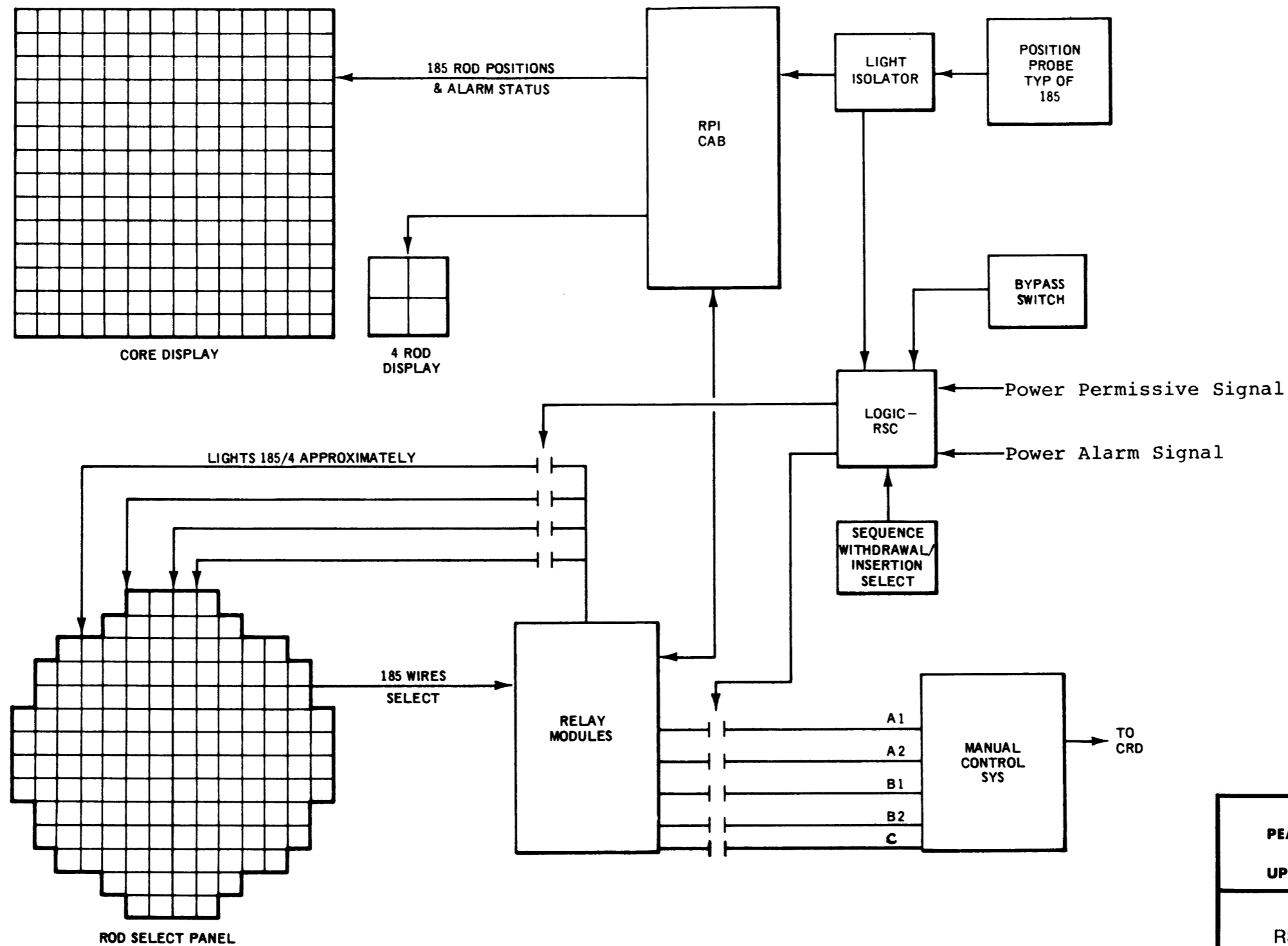
FIGURE J.4.2



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SCHMATIC BLOCK DIAGRAM OF
 RSCS FOR CORE EXPOSURE
 < 6500 MWd/T

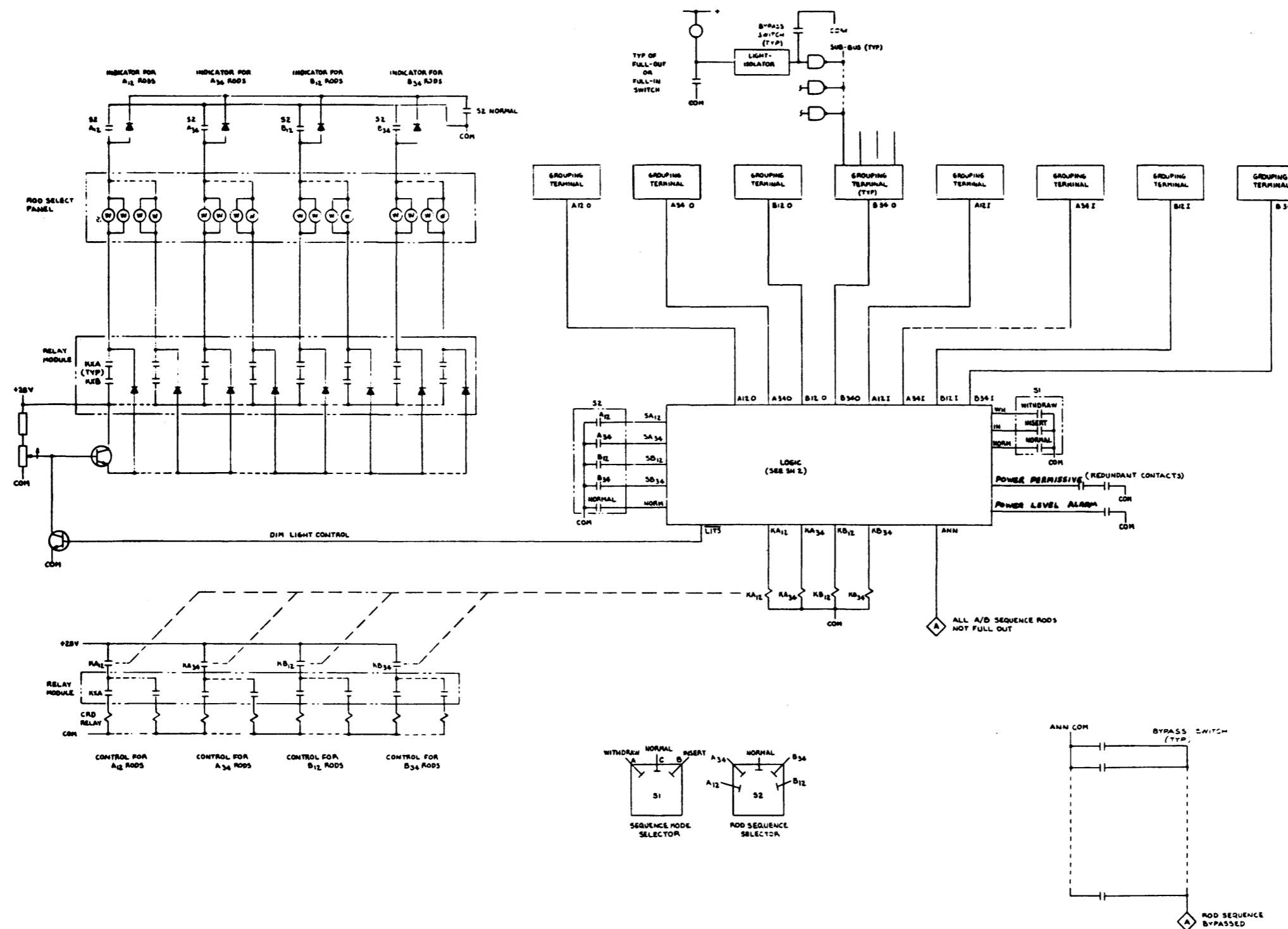
FIGURE J.4.3a



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RSCS BLOCK DIAGRAM FOR CORE
 EXPOSURE <math>< 6500 \text{ MWd/T}</math>

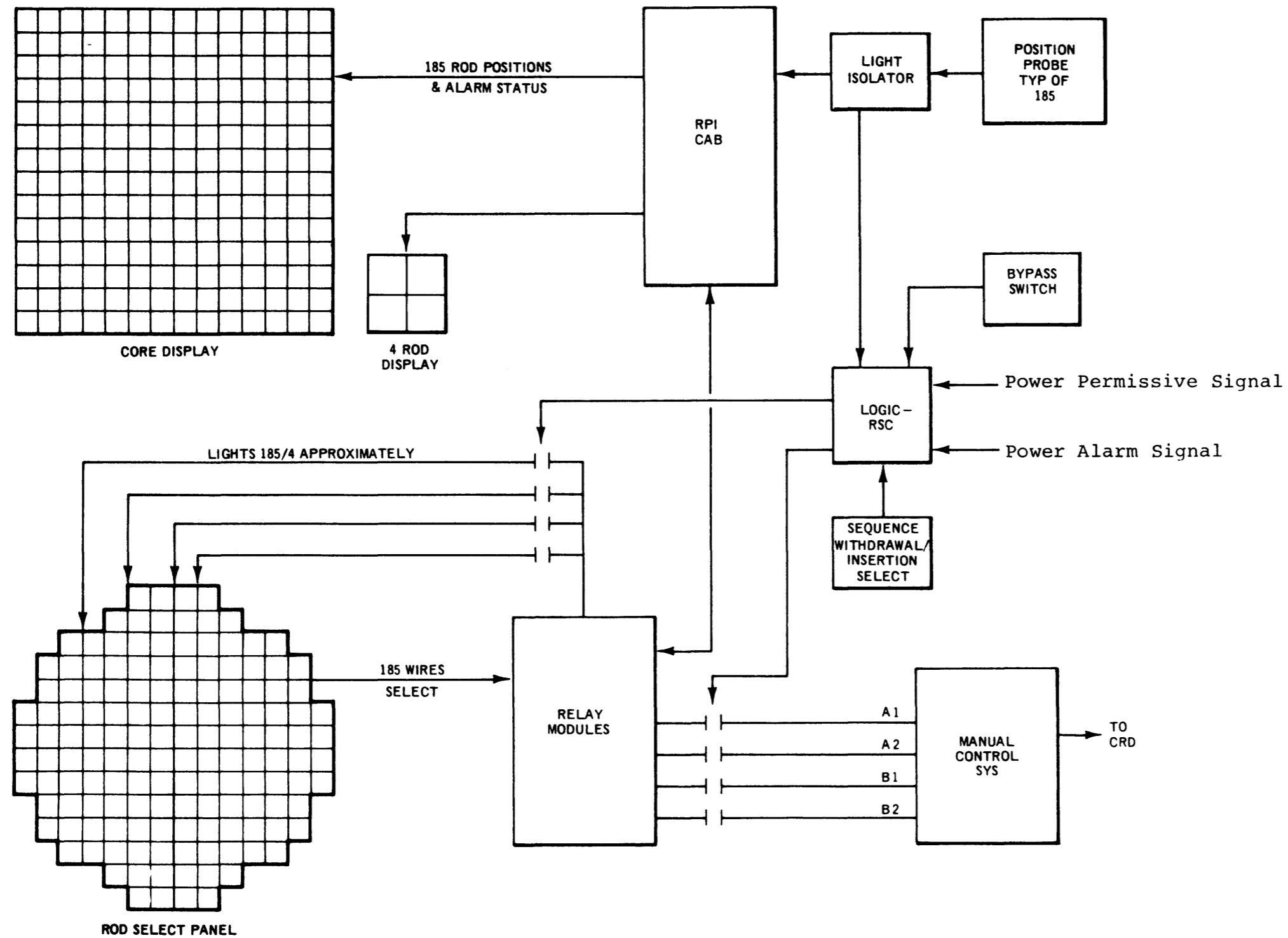
FIGURE J.4.3b



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SCHEMATIC BLOCK DIAGRAM OF
 RSCS FOR CORE EXPOSURE
 >6500 MWd/T

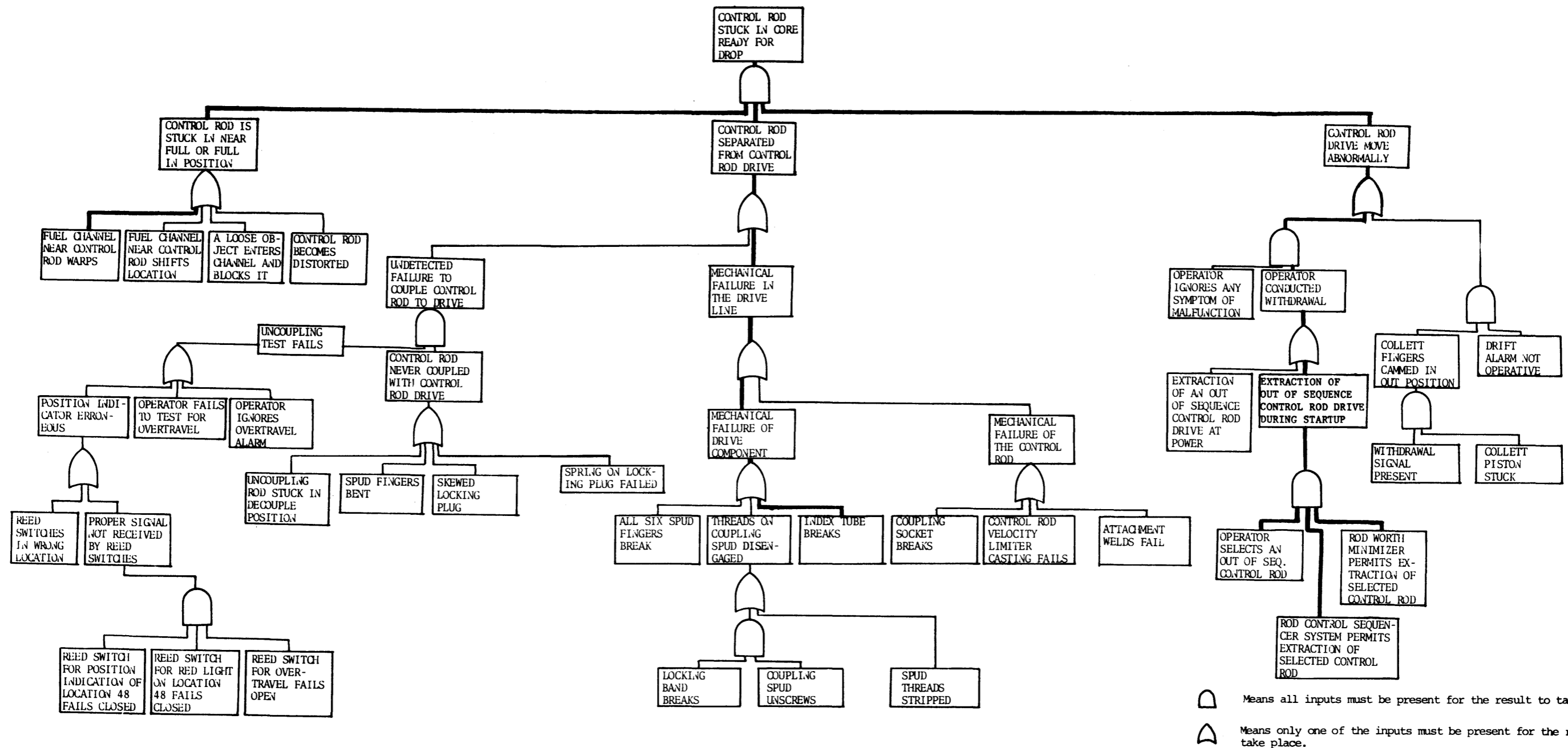
FIGURE J.4.4a





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RSCS BLOCK DIAGRAM FOR CORE
 EXPOSURE >6500 MWd/T

FIGURE J.4.4b

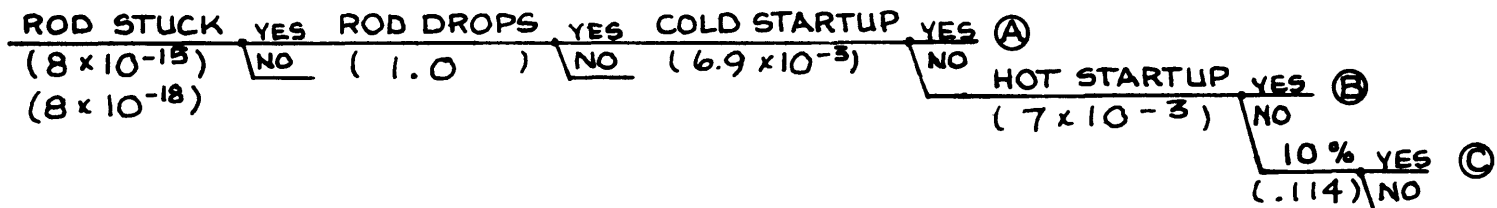


 Means all inputs must be present for the result to take place.
 Means only one of the inputs must be present for the result to take place.

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UPDATED FINAL SAFETY ANALYSIS REPORT

FAULT TREE MODEL OF A CONTROL
ROD STUCK IN CORE READY FOR
A DROP

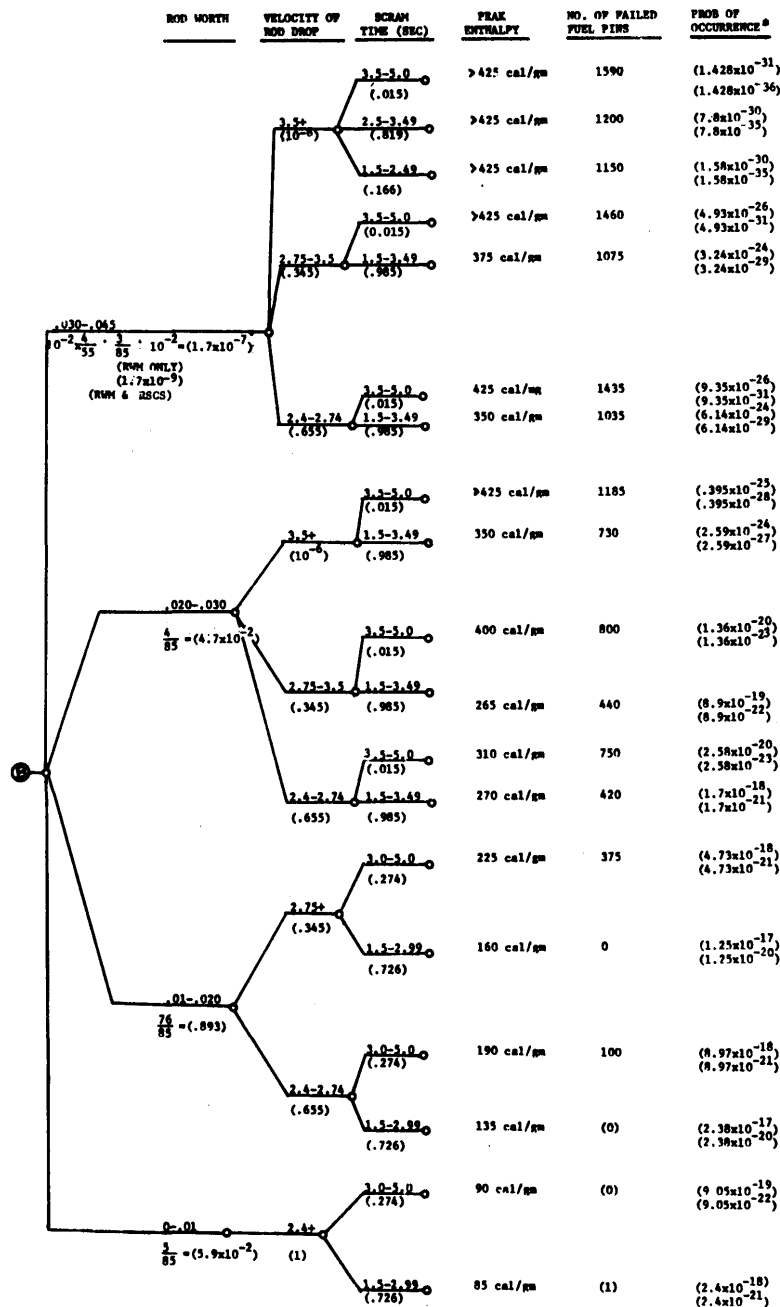
FIGURE J.4.5



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REACTOR STATES USED IN THE
 ANALYSIS OF THE CONTROL ROD
 DROP ACCIDENT

FIGURE J.4.6

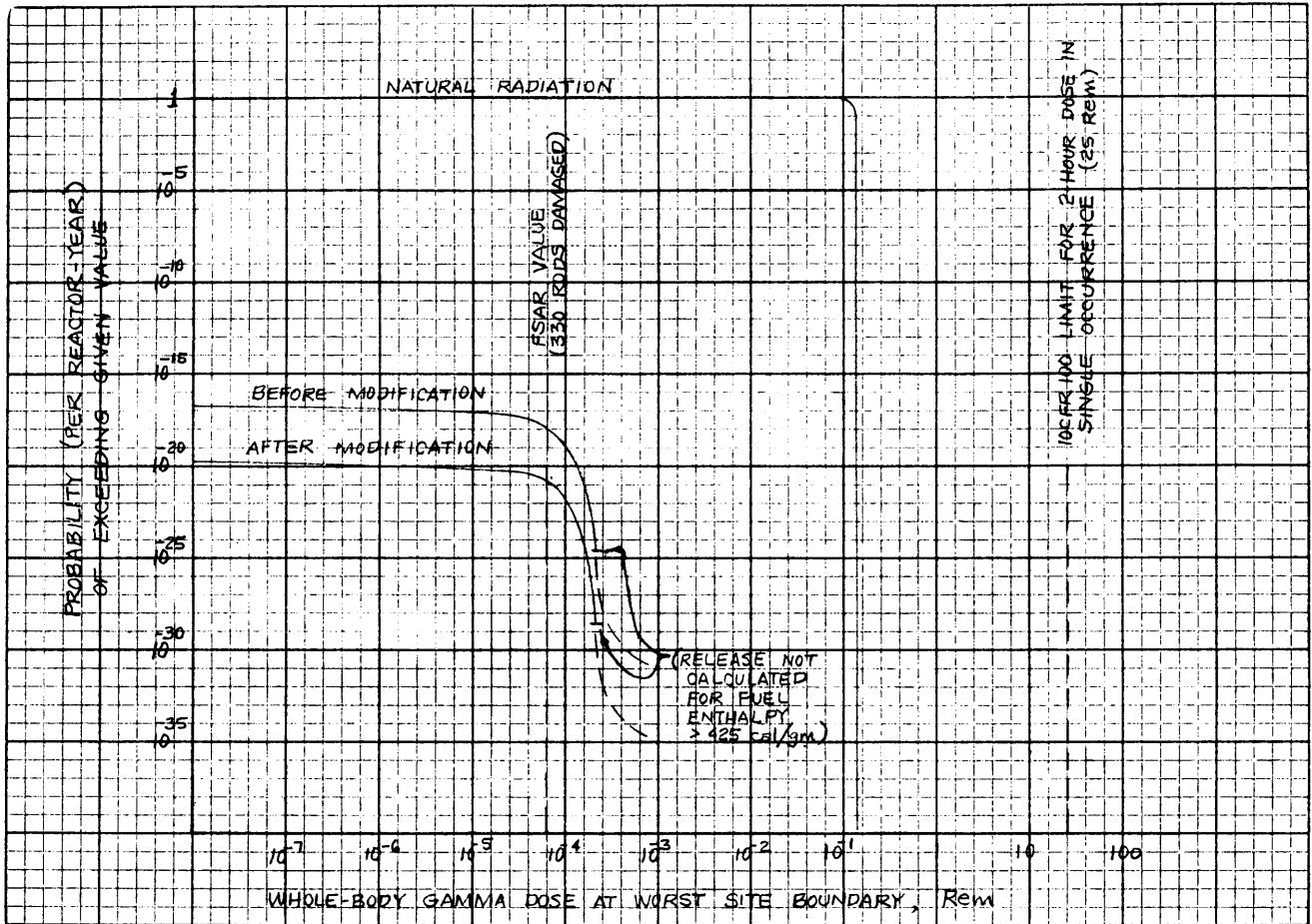


^aUpper Number Refers to Probability with Rod Worth Minimiser Only and Lower Number Refers to Probability with Rod Worth Minimiser and Rod Sequence Control System.

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PROBABILITY ANALYSIS OF CONTROL
ROD DROP ACCIDENT

FIGURE J.4.7



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**OFF-SITE EFFECT OF ROD DROP
ACCIDENT**

FIGURE J.4.8