

JUN 23 1975

POOR ORIGINAL

Note to R. C. Knop, IE:III

POST ACCIDENT ADEQUACY OF OUT OF CORE NEUTRON DETECTORS AT DAVIS BESSE, UNIT I - DOCKET NO. 50-346 (ACTION CONTROL ITEM F30072H1)

In response to your request for technical assistance to determine the adequacy of the above nuclear instrumentation following a loss of coolant accident (LOCA), we have reviewed the matter and submit our findings in the following summary for your information.

At present, standard cabling and installation has not reached the point where core detectors and associated signal cable can operate satisfactorily and continuously under the maximum environmental conditions expected following a worst case (i.e., large LOCA) accident, nor is there a requirement for such operation.

Neither Regulatory Guide 1.97 nor the applicable IEEE standard covering post accident monitoring requires the availability of out of core neutron flux monitoring information following a large LOCA.

Babcock & Wilcox, the NSSS supplier to Davis Besse Plant stated that no credit was taken for the availability of the out of core neutron monitoring system in their safety analysis of a large LOCA. On this basis, B&W does not deem it necessary to provide neutron flux information from this system under worst case conditions.

The design (test) values of pressure and relative humidity given for the out of core detectors and listed in Table 7-4 (Volume 3, page 7-87) of the FSAR do not agree with related values listed in Table 6-3 (page 6-7) of B&W Topical Report No. 10003 and entitled - "Qualification Testing of Protection System Instrumentation."

Based on the above findings and variations, we are forwarding a copy of this memorandum and a copy of the memorandum from Martin to Knop dated April 17, 1975 to the NRC "L" Davis Besse Project Manager, Messr. Leon Engle, for information and possible action.

Other than the above, we plan no further action on these matters. Should you have any questions concerning the above statements, please contact me or Vince Thomas on Extension 7421.

Original signed by
K.V. Seyfrit
K. V. Seyfrit

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DATE → L. Engle, RL		6/ /75	6/ /75