

UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

SEP 2 6 1979

MEMORANDUM FOR:

R. E. Johnson

TAP A-11 Manager

Engineering Branch

Division of Operating Reactors

FROM:

C. Z. Serpan, Jr., Chief Metallurgy & Materials Research Branch Division of Reactor Safety Research

SUBJECT:

DOSIMETRY INPUT TO TAP A-11

At the meeting on the above subject on September 21, 1979, several questions were posed concerning neutron dosimetry, the answers to which should provide input for TAP A-11. During the next several weeks, the appropriate contractors and myself will prepare brief but accurate answers to these questions, for your use in preparing the neutron dosimetry section of A-11.

- What is the best way to plot embrittlement versus fluence (or damage)? How much better is this than "IMeV"?
- How good are reactor physics calculations and methods for 2. predicting both flux and spectrum, and embrittlement in reactor vessel environments?
- What is the best procedure to predict embrittlement and 3. flux/fluence or damage from surveillance capsule measurements?
- What is the change in spectrum going from the surveillance location to locations inside the vessel wall? What is the significance of such changes?

Serpan, Jr., Chief

Metallurgy & Materials Research Branch Division of Reactor Safety Research

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