WIFFEN

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Damage Analysis and Fundamental Studies

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A workshop on Techniques for Radiation Damage Analysis was held on March 8-9, 1979.

The Fusion Data Measurement Program of the Office of Basic Energy Sciences is under review.

An interlaboratory plan for characterizing RTNS-II has been formulated.

The DAFS portion of the MFE-2 irradiation in ORR is nimed at studying helium-displacement interactions.

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Irradiations at the Rotating Target Neutron Source (RTNS)-11 have begun.

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The low-power spectral measurement was conducted in ORR during January. Dosimetry specimens are being analyzed and helium monitors were sent to Rockwell International for this run us well as ORR-MFE-1.

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Flux and spectral mapping has been completed for PNL at U. C. Davis [Be(d,n), E_d = 40 MeV]. Radial flux and damage energy maps were measured on the smallest scale yet attempted at a Be(d,n) source.

3. Helium Analyses of Be(d,n)-and T(d,n)-Irradiated Pure Elements (RI) 23

Initial helium analyses ,have been completed for several pure element specimens of C, Ti, V, Cr, Nb and Mo irradiated in Be(d,n) and T(d,n) neutron fields, and preliminary estimates have been made of their relative helium generation rates.

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Initial calculations for Cu, Au, ^{56}Fe, and Al indicate very high activities, with Al the lowest.

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