SUPPLEMENTAL SHEET Item 15 (cont'



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

June 4, 1979

Ohmart Corporation ATTN: Mr. H. L. Cook 4241 Allendorf Drive Cincinnati, Ohio 46209

Gentlemen:

This refers to your letter dated January 26, 1979, and March 9, 1979 requesting evaluation of your Model NMG-2 moisture gauge.

We have reviewed the design information and test data provided in your letters and find that the Model NMG-2 gauge with the Models SHN and SHWA source holders is acceptable for licensing purposes. It is our understanding that this device will use a 50 millicurie cesium-137 source and a 2.5 microgram californium-252 neutron source. The device will be distributed to specific licensees only.

Please note that a leak test frequency of at least once every six (6) months is required for the californium-252 source in this device. Prior to approval of the source for extended leak test periods, we need test data which verifies that the californium-252 sealed source, used in the Model NMG-2 gauge under operational conditions, has not leaked radioactive material in excess of 0.005 microcuries over a three year period. (Leak test should be taken at six (6) month intervals on a sufficient number of sources to insure statistical reliability).

If you have any questions, please contact me on (301) 427-4240.

Sincerely,

Earl G. Wright

Procedures and Certification Branch

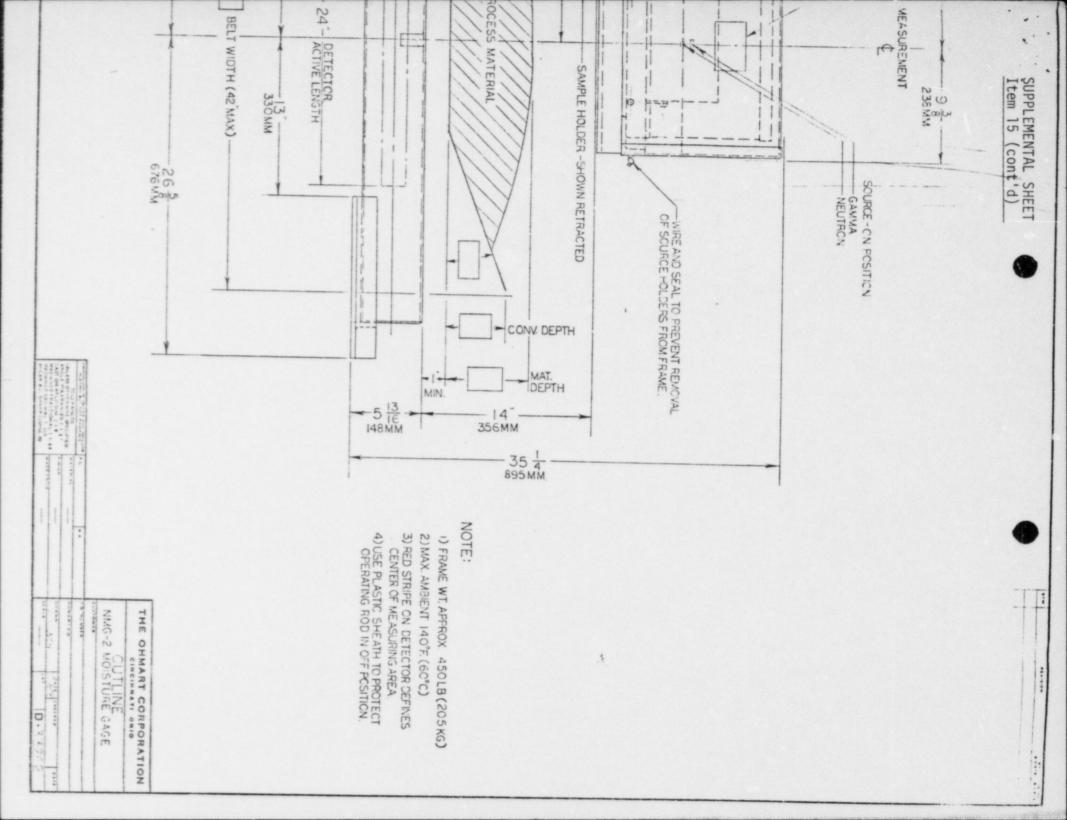
Division of Fuel Cycle and

Farl HWaight

Material Safety

Enclosure: Certificate of Registration

8703120390 850828 REG3 LIC30 34-06188-08 PDR



SUPPLEMENTAL SHEET Item 16

1. Wyman C. Rutledge

University of Michigan, 3 yrs. training, 1947-50, both classroom and laboratory contract work on items a-d, by Dr. James Cork, PhD - physics.

Argonne National Laboratory, by Dr. Samuel Burson, 1.5 years training a-d.

2. Douglas Marcero

Wayne State University, Radiation Health and Safety, both classroom and laboratory work, items a-d, M.S - environmental health.

3. Neal French

Ohio University, B.A., Chemistry radioactive safety training by W.C. Rutledge, 1/2 day course, video tape review by D.H. Marcero.

4. William Bottenfield

Ohio State University, B.S., Chemical engineering, radioactive safety training by W.C. Rutledge, 1/2 day course, video tape review by D.H. Marcero.

I. Wyman C. Rutledge -- Experience with radiation:

otope: Na²⁴, P³², S³⁵, K⁴⁰, Ca⁴⁵, Sc⁴⁶, Ch⁵¹, Fe⁵⁵, Co⁶⁰, Se⁷⁵, Se^{79m}, Sr⁸⁹, Sr⁹⁰, Y⁹⁰, Cb⁹⁴, Me¹⁰¹, Ag¹¹⁰, Cd¹¹⁵, I¹³¹, Ce¹³⁴, Cs¹³⁷, Yt¹⁷⁵, La¹⁴⁰, Sm¹⁴⁵, Hf¹⁸¹, Rh¹⁸⁸, Ta¹⁶⁰, Ho¹⁶⁵, Pt¹⁹⁷, Au¹⁹⁸, Ra., Pr²³³, Th²⁸³, Se^{77m}, Se^{81m}, Se⁸³, Nd¹⁴⁷, Nd¹⁴⁹, Nd¹⁵⁸, Pm¹⁴⁹, Am²⁴¹, Pm¹⁴⁷, Sm¹⁵¹, Sm¹⁵³, Sm¹⁵⁵, Eu¹⁵⁵, Tc¹⁰¹, Rb⁸⁶, Kr⁸⁵, Tl²⁰⁴, tritium.

Maximum Amount:

5 curies

Where Experience

University of Michigan/PhD, Nuclear Physics

Was Gained:

Argonne National Laboratory

of

The Mead Corporation

Duration of Experience:

University of Michigan - 3 yrs. Formal course, on the job.

Argonne - 1-1/2 yrs. Formal course, on the job.

Mead

- 22 yrs., on the job.

Type of Use:

Research studies, Production Safety, Source wipe testing and processing, Spectrograph, Life Time, Coincidence studies, Tracer studies, density, weight, solids, Corporate Safety Officer.

II. Douglas H. Marcero

Isotope: Hg^{203} , Cd^{115} , Am^{241} , Cs^{137} , Co^{60} , Te^{127m} , Po^{210} , Ni^{63} , Kr^{85} ,

Tritium.

Maximum Amount: 20 curies

Where Experience Was Gained:

Wayne State School of Medicine Radiation Health and Safety

Dept. of Environmental Health, M.S. General Electric, Lamp Division

The Mead Corporation

Duration of Experience:

Wayne State - 2 yrs, Formal course, on the job. General Electric - 5 yrs., on the job.

Mead Corporation - 1 yr., on the job.

Type of Use:

Radioisotope Lab Supervisor, Radiation Safety Administrator, Supervised source installation, checking, moving, wipe testing, tracer studies, toxicological research studies, safety and licensing. Environmental Health and Product Safety Manager, Corporate Human and Environmental Protection Department. SUPP' EMENTAL SHEET Item 17 (cont'd)

III. Neal French

Ohio University, Mead Corporation, 16 years, 4 curies Cs 137 for level and density, 1 curie Kr 85 for beta gauge.

IV. William Bottenfield

Ohio State University, Mead Corporation, 27 years, 4 curies Cs¹³⁷ for level and density, 1 curie Kr⁸⁵ for weight gauge (beta).