

Release

THE MARTIN COMPANY

Baltimore 3, Maryland

August 11, 1960
Mail No. W-756
Nuclear Division

U. S. Atomic Energy Commission
Division of Licensing and Regulation
Washington 25, D. C.

Attention: Mr. James R. Mason, Chief
Isotopes Branch

Gentlemen:

It is requested that By-Product Material License No. 19-1398-19 be amended to include the name of Glenn Schaeffer as user.

Mr. Schaeffer has been instructed in the subjects outlined in Appendix A of the proposed 10 CFR 31 and has demonstrated his understanding of these subjects in an examination conducted by Mr. Richard H. Boutelle, our Radiation Safety Officer. He has received written copies of the proposed 10 CFR 31, 10 CFR 20 and a document entitled, "Health Physics Procedures During the use of Radiography Sources", which contains the Martin Company's operating and emergency procedures. He has demonstrated his understanding of this material in an examination conducted by Mr. Richard H. Boutelle. Mr. Schaeffer has demonstrated his competency in the use of radiographic exposure devices, sources, handling tools and instruments, during the course of work under the direct supervision of Mr. Canine Hollens.

The answers to Questions 8 and 9 of Form 313 are attached in support of this request.

Very truly yours,

THE MARTIN COMPANY

J. V. Loppert
J. V. Loppert ^{RB}
Licensing Officer

JVL:mnh

Encl:

~~RECEIVED~~ C/1

DUPLICATED
FOR DIV. OF INSP

28482

- A. Principles and practices of radiation protection.
- B. Radioactivity measurement standardization and monitoring techniques and instrument.
- C. Mathematics and calculations basic to the use and measurement of radioactivity.
- D. Biological effects of radiation.

Type of Training	Where Trained	Duration of Training	On the Job	Formal Course
(See A above)				
Day Clinic	University of Baltimore under sponsorship of Society for Non-destructive Testing	30 hours plus film presentations		Yes
Tutoring in practice	Roberts and Randolph Ultrasonics Co. under John Gleison who has had 15 years experience in the x-ray field.	2 years	Yes	
(See B above)				
Same as above using in particular the "Cutie Pie" radiation survey meter and Picker Film Badges. In field practice used distance/decay factors in roping off radiation danger areas. Used wide range of penetrameters on all exposures. A 200 KV Andrex and a 90 KV Picker unit were used on the job.				
(See C above)				
Academic High School and College courses covering Algebra, Trigonometry and Analytic Geometry	Franklin and Marshall College, Lancaster, Pennsylvania	5 semesters		Yes
In day-to-day practice milliamperage, time and distance ratios were used, usually to adjust for space and equipment limitations. Density calculations were made on each new and unfamiliar job.				
(See D above)				
Same as (A)				
Company Training - course given by Charles Flynn of Roberts and Randolph and patterned after course presented under auspices of AEC at the Budd Co., Philadelphia, Penna. covering the field of ionizing radiation and its biological effects, understanding terms in use such as the rad, rep, rem, and government regulations.		10 hours		Yes

9. Experience with Radiation (Actual use of radioisotopes or equivalent experience)

Isotope	Maximum Amount	Where Experience Was Gained	Duration of Experience	Type
90 KV X-ray Unit		Roberts and Randolph Ultrasonics Co.	6 months	Supervised the inspection of 2200 safety shoes, Exposing and processing up to 120 films per day. Supervision included designing and building lead covered x-ray booth and setting standards for complete protection of personnel from radiation.
200 KV X-ray Unit		Roberts and Randolph Ultrasonics Co.	1½ years	<p>Inspection of welds on aluminum, steel and copper alloy tanks on site of manufacturers plant. Set safeguards for manufacturers employees unaware of radiation hazards.</p> <p>Inspected for defects in castings and welds Roberts and Randolph using moveable lead barriers for protection.</p> <p>Performed many fluoroscopic inspections of contaminated food products at manufacturers plants.</p>
Iridium 192	50 curies	The Martin Co. Baltimore, Md.	2 months	Under supervision performed radiographic inspection of welds on piping, tanks and other equipment as a general service for the Nuclear Division and for the Baltimore Division of The Martin Co.
Cobalt 60	2 curies	"	2 months	