ATOMIC ENERGY COMMISSION AEC-313 Form approved Budget Bursou No. 38-R027.4 ***5-58**) **APPLICATION FOR BYPRODUCT MATERIAL LICENSE** INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, com-plete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 15. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail three copies to: U. S. Atomic Energy Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is sub-accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30 and the Licensee is sub-ject to Title 10, Code of Federal Regulations, Part 20. 1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, (b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If person, etc.) different from 1 (a).) North American Aviation, Inc. Rocketdyne Division Rocketdyne Division 6633 Canoga Avenue Propulsion Field Laboratory Canoga Park, California Santa Susana, California 2. DEPARTMENT TO USE BYPRODUCT MATERIAL 3. PREViOUS LICENSE NUMBER(5). (If this is an application for renewal of a license, please indicate and give number.) 4-4292-1 (not renewal) Special Projects Group Department 596-95 INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items B and 9.) 5. RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.1 Robert B. Kimball Rex B. Gordon (b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYS-6. (a) BYPRODUCT MATERIAL. (Elements ICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of man and mass number of each.) number, number of sources and maximum activity per source.) 300 millicuries contained in one sealed capsule. Strontium - 90 7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-3130) must be com-pleted in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.) Industrial Nucleonic Corporation Model BB0010 sealed capsule which will be used in Industrial Nucleonics' Model PDH-3 measuring system. DUPLICATEU FOR DAY, OF INSP (Continued on reverse side) 208-42

| Form AEC | -313 (5-58) | | • | | | | | | | | Paye |
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| | | AND EXPE | RIENCE OF E | ACH INDIVIDU | IAL NA | MED IN ITEA | A 4 (| Use supplemen | | its if necessary |) |
| 8. TYPE OF | | WHERE TRAINED | | | | | DURATION (TRAINING | | ON THE JOB Circle answer) | FORMAL COUI (Circle answe | |
| a. Principles and practices of radiation protection | | | New Brunswick, New Jersey | | | | | 1949-52 | | Yes No | Yes No |
| Badioactivity measurement standardiza- tion and monitoring techniques and in- struments | | | Phillips Petroleum Company NAT Reactor Testing Station Idaho Falls, Idaho | | | | | 1954-58 | 5 | Yes No | Yes No |
| Mothematics and calculations basic to the use and measurement of radioactivity | | | Advanced Radiochemistry Course Graduate School University of Idaho | | | | | 1 Semes | ter | Yes No | Yes No |
| | al effects of radiation | | | | | · · · · · · · | | | | | |
| | NCE WITH RADIATIO | | HERE EXPERIENC | topes or equivale | nt exper | | | | | TYPE C | NE LISE |
| Sr 90 | 30 mc | Brunswic | 4 years | | | Tr | Tracer Analysis | | | | |
| | | | lips Petroleum Co. NRTS | | | 4 years | | Remote Chemical Analysis | | | |
| 10. RADIA | NON DETECTION INS | TRUMENTS | . (Use supplen | nental sheets if ne | ecessary.) | | · | | | | |
| TYPE OF INSTRUMENTS (Include make and model number of each) | | | NUMBER | RADIATION SENSITIVITY RANC DETECTED (mr/hr) | | | WINDOW THICKNESS (mg/cm ²) | | | USE (Monitoring, surveying, measuring | |
| Nuclear Chicago, Model 2612-M Portable Survey Meter | | | 1 | Beta & Gamma | 1 | l to mr/hr | l thick- s mg/cm ² | Mc | Monitoring and surveying | | |
| Jordon Electronics Model AGB10XG-Sr. Port- able Radiation Monitor | | | . 1 | Alpha, Beta & Gamma | | L mr/hr to 000 r/hr | mg/cm ² | ľ | Monitoring | | |
| brated | p, frequency, and s operation us i Sr 90 sour | ce wit | h the AB | G-10KC-SR | , whi | ich are | supp | lied wit | ch th | ne instr | uments. |
| Film 1 | badges – sup he Health Pf ion. Dosin | plied | by U.S. | Nuclear C | orpoi | ration. | F.0. | Box 200 |)2. I | Burbank. | Californ |
| | | - | | N TO BE SUB | | | | | | | |
| of facili | IES AND EQUIPMENT. Ity is attached. (Circle ION PROTECTION PR | OGRAM. | Yes No Describe the radi | ation protection p | rogram i | ncluding control | measur | es. If applica | tion cov | rers sealed sour | rces, submit leak |
| icing, n | procedures where appl naintenance and repair | of the sourc | e. | · · · | | | | | | | |
| | DISPOSAL. If a com for disposing of radio | active waste | is and estimates | of the type and an | nount of | activity involved | | | ailed de | escription of me | thods which will |
| PREPAR | PLICANT AND ANY C ED IN CONFORMITY W MENTS ATTACHED HE | OFFICIAL EX | ECUTING THIS O | RAL REGULATION | BEHALF C | OF THE APPLICA | ANT NA | MED IN ITEM 1 | | | |
| Date | 27 AUG | . 19 | 59 | · · · | | Applicant By: | named | In item | <u> </u> | U. OF | NAA |
| | | | | 8 | te | | , | | | | |
| | | | · ··` | CA Lorden Carlos | | Title of ce | rtifying | official | | | |
| | IG18 U.S.C., S tion to any departme | | | | | | | al offense to | make a | willfully fals | e statement or |
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