40-6998 NRC FORM 2 U.S. NUCLEAR REGULATORY COMMISSION 3-82 3150-0019 APPLICATION FOR SOURCE MATERIAL LICENSE **EXPIRES 12-31-83** 10 CFR 40 Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, so tree material for the activity or activities described. 2. NAME OF APPLICANT 1 LICENSE INFORMATION (Check one) Jacob Brothers, Inc. A NEW LICENSE PRINCIPAL BUSITESS ADDRESS B. AMENDMENT TO LICENSE NO. 1240 Seaview Avenue 06607 NUCLEAR REGULATE C. RENEWAL OF LICENSE NO. STB-768 Bridgeport, Connecticut D. PREVIOUS LICENSE NO. 3. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED Mail S 1240 Seaview Avenue Bridgeport, Connecticut 06607 4. NAME OF PERSON TO BE CONTACTED CONCERNING THIS TELEPHONE NUMBER (Of person to be contacted) APPLICATION (203) 333-8212 367-5341 John E. Summ 5. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED For pickup of prepackaged waste at AVCO Company, Stratford, Connecticut, temporary storage at the licensee's address stated in Item 2 above and transfer to a licensed disposal Agency such as Radiac Research Corporation, Interex Corporation, Nuclear Diagnostic Laboratories, etc. STATE THE TYPE OR TYPES, CHEMICAL FORM OR FORMS, AND QUANTITIES OF SOURCE MATERIAL YOU PROPOSE TO RECEIVE, POSSESS, USE, OR TRANSFER UNDER THE LICENSE C. PHYSICAL FORM (Including B. CHEMICAL FORM A. TYPE % U or Th) NATURAL URANIUM ancubi URANIUM DEPLETED IN THE U-235 ISOTOPE THORIUM (Isotope) Chemical E. MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (KIL Action Compl. 1.1.15 7. DESCRIBE THE CHEMICAL, PHYSICAL, METALLURGICAL, OR NUCLEAR PROCESS OR PROCESSES IN WHICH THE SOURCE MATE WILL BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURCE MATERIAL INVOLVED IN EACH PROCESS AT ANY ONE TIME PROVIDING A THOROUGH EVALUATION OF THE POTENTIAL RADIATION HAZARDS ASSOCIATED WITH EACH STEP OF THOSE WHICH THE SOURCE MATERIAL PROCESSES. Magnesium Turnings with a thorium content, lathed out from aircraft parts. LIST THE NAMES AND ATTACH A RESUMB OF THE TECHNICAL QUALIFICATIONS INCLUDING TRAINING AND EXPERIENCE OF APPLICANT'S SUPERVISORY PERSONNEL AND THE PERSON BESPONSIBLE FOR T E RADIATION SA PROGRAM (or of AMOLDER NOV08 Type or rea Mr. John E. Summ Date Cheun Received E 9. DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL BE USED TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE OR PROPERTY AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES TO THE OPERATIONS LISTED IN ITEM 9: INCLUDE:
A. RADIATION DETECTION (including film badges, dosimeters, counters, air sampling, and other survey equipment as appropriate, the description of radiation detection instruments should include the instrument characteristics such as type of radiation detected, window thickness, and the range(s) of each instrument) None Used A. The use of closed lock-tite drums for storage until removed to a licensed B . disposal area. B. METHOD, FREQUENCY AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN A. ABOVE, INCLUDING AIR SAMPLING EQUIPMENT (for film badges, specify method of calibrating and processing, or name supplier) None Used 8902230375 871214 REG1 LIC40 STB-0768 21450 NRC FORM 2 (3-82)

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9C. VENTILATION EQUIPMENT WHICH WILL BE USED IN SPERATIONS WHICH PRODUCE DUST, PLAN VIEW SHOWING TYPE AND LOCATION OF HOOD AND FILTERS. MINIMUM VELOCITIE AND PROCEDURES FOR TESTING SUCH EQUIPMENT.	FUMES, MISTS, OR GASES, INCLUDING S MAINTAINED AT HOOD OPENINGS
None Used	
10. DESCRIBE PROPOSED PROCEDURES TO PROTECT HEALTH AND MINIMIZE DANGER TO LIF PROCEDURES TO THE OPERATIONS LISTED IN ITEM 7: INCLUDE:  A. SAFETY FEATURES AND PROCEDURES TO AVOID NONNUCLEAR ACCIDENTS, SUCH AS I MATERIAL STORAGE AND PROCESSING AREAS.	
Our employees do not come in contact with actual material	
B. EMERGENCY PROCEDURES IN THE EVENT OF ACCIDENTS WHICH MIGHT INVOLVE SOUR	
We would consult the nearest Nuclear Energy Commission for control of control of control of control of the cont	or advice.
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	Actua Comat
11. WASTE PRODUCTS	140047
A QUANTITY AND TYPE OF RADIOACTIVE WASTE THAT WILL BE GENERATED	D)
SEE ATTACHED SUPPLEMENTAL SHEET Thorium in small amounts	pot
B. DETAILED PROCEDURES FOR WASTE DISPOSAL	
12. IF PRODUCTS FOR DISTRIBUTION TO GENERAL LICENSEES OR TO THE GENERAL PUBLIC 10 CFR 40 ARE TO BF MANUFACTURED, USE A SUPPLEMENTAL SHEET TO FURNISH A DET. INCLUDING:	
A. PERCENT SOURCE MATERIAL IN THE PRODUCT AND ITS LOCATION IN THE PRODUCT.	
B. PHYSICAL DESCRIPTION OF THE PRODUCT INCLUDING CHARACTERISTICS, IF ANY, THAT INGESTION OF SOURCE MATERIAL THAT MIGHT BE SEPARATED FROM THE PRODUCT.	WILL PREVENT INHALATION OR
C. BETA AND BETA PLUS GAMMA RADIATION LEVELS (Specify instrument used, date of calibration at the surface of the product and at 12 inches.	on and calibration techniques used)
D. METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE	E MANUFACTURED PRODUCT.
13. CERTIFICATE (This must be completed by the applicant)	
The applicant and any official executing this certificate on behalf of the applicant named in item 2, certificate on applicant named in item 2	
TITLE OF CERTIFYING OFFICIAL AUTHORIZED TO ACT ON BEHALF	OF THE APPLICANT
WARNING: 18 U.S.C. Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to to any department, or agency of the United States as to any matter within its jurisdiction.	make a willfully false statement or representation

PC. VENTILATION EQUIPMENT WHICH WILL BE USED IN OPERATIONS WHICH PRODUCE DUST, FUMES, MISTS, OR GASES, INC. PLAN VIEW SHOWING TYPE AND LOCATION OF HOOD AND FILTERS. MINIMUM VELOCITIES MAINTAINED AT HOOD OPEN AND PROCEDURES FOR TESTING SUCH EQUIPMENT.	LUDING
None Used	
10. DESCRIBE PROPOSED PROCEDURES TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE AND PROPERTY AND RELAT PROCEDURES TO THE OPERATIONS LISTED IN ITEM 7; INCLUDE:  A. SAFETY FEATURES AND PROCEDURES TO AVOID NONNUCLEAR ACCIDENTS, SUCH AS FIRE, EXPLOSIONS, ETC., IN SO MATERIAL STORAGE AND PROCESSING AREAS.	
Our employees do not come in contact with actual material.	
B. EMERGENCY PROCEDURES IN THE EVENT OF ACCIDENTS WHICH MIGHT INVOLVE SOURCE MATERIAL.	
We would consult the nearest Nuclear Energy Commission for advice.	
C. DETAILED DESCRIPTION OF RADIATION SURVEY PROGRAM AND PROCEDURES.	
11. WASTE PRODUCTS	
None will be generated  SEE ATTACHED SUPPLEMENTAL SHEET Thorium in small amounts  B. Detailed procedures for waste disposal.  12. If products for distribution to general licensees or to the general public under an exemption contains cfr 40 are to be manufactured, use a supplemental sheet to furnish a detailed description of the princluding:  A. Percent source material in the product and its location in the product.  B. Physical description of the product including characteristics, if any, that will prevent inhalation of ingestion of source material that might be separated from the product.  C. Beta and beta plus gamma radiation levels (Specify Instrument used, date of calibration and calibration techniques used) at the surface of the product and at 12 inches.  D. Method of assuring that source material cannot be disassociated from the manufactured product.	RODUCT.
13. CERTIFICATE (This must be completed by the applicant)	
The applicant and any official executing this certificate on behalf of the applicant named in item 2, certify that this application is prepared in with Title 10, Code of Federal Regulations, Part 40, and that all information contained herein, including any supplements attached hereto, is best of our knowledge and belief.  APPLICANT'S SIGNATURE  PRINTED OR TYPED NAME	THE OPEN TO SEE STATE OF THE PARTY OF THE PA
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## U.S. NUCLEAR REGULATORY COMMISSION

## APPLICATION FOR SOURCE MATERIAL LICENSE

APPROVED BY OMB 3150-0019 EXPIRES 12-31-83

Pursuant to the regulations in Title 10, Code of FeJeral Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described. 1. LICENSE INFORMATION 2 NAME OF APPLICANT (Check one) Jacob Brothers, Inc. A. NEW LICENSE PRINCIPAL BUSINESS ADDPESS B. AMENDMENT TO LICENSE NO 1240 Seaview Avenue C. RENEWAL OF LICENSE NO. STB-768 Bridgeport, Connecticut 06607 D. PREVIOUS LICENSE NO. 3. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED 1240 Seaview Avenue Bridgeport, Connecticut 06607 4. NAME OF PERSON TO BE CONTACTED CONCERNING THIS TELEPHONE NUMBER (Of person to be contacted) APPLICATION (203) 333-8212 Mr. John E. Summ 5. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED For pickup of prepackaged was e at AVCO Company, Stratford, Connecticut, temporary storage at the licensee's address stated in Item 2 above and transfer to a licensed disposal Agency such as Radiac Research Corporation, Interex Corporation, Nuclear Diagnostic Laboratories, etc. 6. STATE THE TYPE OR TYPES, CHEMICAL FORM OR FORMS, AND QUANTITIES OF SOURCE MATERIAL YOU PROPOSE TO RECEIVE, POSSESS, USE, OR TRANSFER UNDER THE LICENSE C. PHYSICAL FORM (Including D. MAXIMUM AMOUNT AT ANY A. TYPE B. CHEMICAL FORM % U or Th) ONE TIME (Kilograms) NATURAL URANIUM URANIUM DEPLETED IN THE U-235 ISOTOPE THORIUM (Isotope) Chemical. E. MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (Kilograms) 182 Kilograms 7. DESCRIBE THE CHEMICAL, PHYSICAL, METALLURGICAL, OR NUCLEAR PROCESS OR PROCESSES IN WHICH THE SOURCE MATERIAL WILL BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURCE MATERIAL INVOLVED IN EACH PROCESS AT ANY ONE TIME, AND PROVIDING A THOROUGH EVALUATION OF THE POTENTIAL RADIATION HAZARDS ASSOCIATED WITH EACH STEP OF THOSE PROCESSES. Magnesium Turnings with a thorium content, lathed out from aircraft parts. 8. LIST THE NAMES AND ATTACH A RESUME OF THE TECHNICAL QUALIFICATIONS INCLUDING TRAINING AND EXPERIENCE OF APPLICANT'S SUPERVISONY PERSONNEL AND THE PERSON RESPONSIBLE FOR THE RADIATION applicant if an individual) Mr. John E. Summ 9. DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL BE USED TO PROTECT MEALTH AND MINIMIZE DANGER TO LIFE OR PROPERTY AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES TO THE OPERATIONS LISTED IN ITEM 9: INCLUDE: A. RADIATION DETECTION (including film badges, dosimeters, counters, air sampling, and other survey equipment as appropriate, the description of radiation detection instruments should include the instrument characteristics such as type of radiation detected, window thickness, and the range(s) of each instrument). A. None Used The use of closed lock-tite drums for storage until removed to a licensed disposal area. B. B. METHOD, FREQUENCY AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN A. ABOVE, INCLUDING AIR SAMPLING EQUIPMENT (for film badges, specify method of calibrating and processing, or name supplier).

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None Used

SC. VENTILATION EQUIPMENT WHICH WILL BE USED IN OPERATIONS WHICH PRODUCE DUST, FUMES, MISTS, OR GASES, INCLUDING PLAN VIEW SHOWING TYPE AND LOCATION OF HOOD AND FILTERS. MINIMUM VELOCITIES MAINTAINED AT HOOD OPENINGS AND PROCEDURES FOR TESTING SUCH EQUIPMENT.  None Used
10. DESCRIBE PROPOSED PROCEDURES TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE AND PROPERTY AND RELATE THESE PROCEDURES TO THE OPERATIONS LISTED IN ITEM 7; INCLUDE:  A. SAFETY FRATURES AND PROCEDURES TO AVOID NONNUCLEAR ACCIDENTS, SUCH AS FIRE, EXPLOSIONS, ETC., IN SOURCE MATERIAL STORAGE AND PROCESSING AREAS.
Our employees do not come in contact with actual naterial.  B. EMERGENCY PROCEDURES IN THE EVENT OF ACCIDENTS WHICH MIGHT INVOLVE SOURCE MATERIAL.
We would consult the nearest Nuclear Energy Commission for advice.  C. Detailed description of Radiation survey program and procedures.
11. WASTE PRODUCTS
A QUANTITY AND TYPE OF RADIOACTIVE WASTE THAT WILL BE GENERATED  NONE WILL BE GENERATED  SEE ATTACHED SUPPLEMENTAL SHEET THOT 1 m 1 mall amounts  B. DETAILED PROCEDURES FOR WASTE DISPOSAL
12. IF PRODUCTS FOR DISTRIBUTION TO GENERAL LICENSEES OR TO THE GENERAL PUBLIC UNDER AN EXEMPTION CONTAINED IN 10 CFR 40 ARE TO BE MANUFACTURED, USE A SUPPLEMENTAL SHEET TO FURNISH A DETAILED DESCRIPTION OF THE PRODUCT, INCLUDING:
A. PERCENT SOURCE MATERIAL IN THE PRODUCT AND ITS LOCATION IN THE PRODUCT.  B. PHYSICAL DESCRIPTION OF THE PRODUCT INCLUDING CHARACTERISTICS, IF ANY, THAT WILL PREVENT INHALATION OR
ingestion of source material that might be separated from the product.  C. BETA AND BETA PLUS GAMMA RADIATION LEVELS (Specify Instrument used, date of calibration and calibration techniques used)
AT THE SURFACE OF THE PRODUCT AND AT 12 INCHES.  D. METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE MANUFACTURED PRODUCT.
13. CERTIFICATE (This must be completed by the applicant)
The applicant and any official executing this certificate on behalf of the applicant named in item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 40, and that all information contained herein, including any supplements attached hereto, is true to the best of our knowledge and belief.
APPLICANT SIGNATURE PRINTED OR TYPED NAME DATE
TITLE OF CERTIFYING OFFICIAL AUTHORIZED TO ACT ON BEHALF OF THE APPLICANT
WARNING: 18 U.S.C. Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

GPO 888-912

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Name Tard	
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B. DETAILED PROCEDURES FOR WASTE DISPOSAL	
12. IF PRODUCTS FOR DISTRIBUTION TO GENERAL LICENSEES OR TO THE GENERAL PUBLIC UNDER AN EXEMPTION OF 10 CFR 40 ARE TO BE MANUFACTURED, USE A SUPPLEMENTAL SHEET TO F'IRNISH A DETAILED DESCRIPTION OF INCLUDING:	ONTAINED IN THE PRODUCT.
A. PERCENT SOURCE MATERIAL IN THE PRODUCT AND ITS LOCATION IN THE PRODUCT.	
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C. BETA AND BETA PLUS GAMMA RADIATION LEVELS (Specify instrument used, date of calibration and calibration technique at the surface of the product and at 12 inches.	s used)
D. METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE MANUFACTURED PROD	DUCT.
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W. 23	3/20/50
APPLICANT SIGNATURE PRINTED OR TYPED NAME	DATE
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