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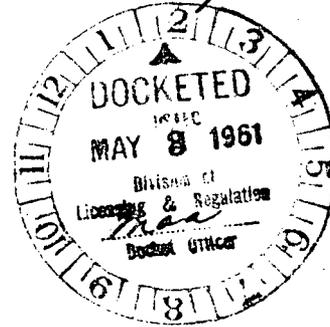
HEADQUARTERS
DEPARTMENT OF THE ARMY
OFFICE OF THE SURGEON GENERAL
WASHINGTON 25, D. C.

DOCUMENT NO. 40-6476

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1 May 1961

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



40-6639
copy only

Gentlemen:

Transmitted herewith, approved, is a request from the Ordnance Corps for an Atomic Energy Commission license to obtain depleted uranium. It should be noted that the proposed use of the material includes not only machining of barstock alloy at Lake City Arsenal but distribution of the assembled item to the Army Field Forces. We request that your reply include, in addition to the license if it is feasible to issue such a license, guidance on controls required for the proposed end use of the item.

Sincerely,

Charles W. Kraul

1 Incl
Application for
License (in trip)

CHARLES W. KRAUL
Lt Colonel, MC
Preventive Medicine Division

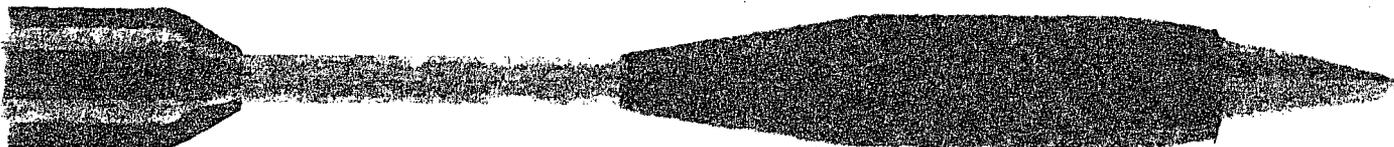
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Ordnance Corps Application for AEC General License

- A. Material for which license is requested: Depleted uranium.
- B. Scope of license: It is required that the Ordnance Corps be permitted to procure, possess, fabricate, use, transfer and export depleted uranium or items fabricated from this material.
- C. Quantity of material to be covered by license: 216,157 pounds.
- D. Utilization of material: Production of XM101 20mm spotting round for Davy Crockett weapon system.



- E. Production procedure: The green salt is shipped from Oak Ridge to Mallinkredt Chemical, St. Louis, Mo., where it is reduced to the metal under AEC contract with funds provided by the Ordnance Corps. The dingo is shipped to National Lead, Albany, N. Y., where it is alloyed with 8% molybdenum and fabricated into barstock. The barstock is shipped to Lake City Arsenal, Independence, Mo., where it is machined to final configuration. There also, various components of the spotting round are assembled and subsequently issued to The Army Field Forces through the Ordnance supply channels. The industrial contracts may change depending upon subsequent bids received, however, the procedure will be as outlined:
- F. Health hazards: During all of the handling operations within Ordnance Corps facilities the pertinent Army regulations are adhered to. Wipe tests of the final item show negligible rub-off. The hazard from ionizing radiation also appears negligible.
- No
change

Incl 1

TRAINING AND EXPERIENCE AT LAKE CITY ARSENAL

- A. Before commencing operation of D₃₈ and prior to receipt of the material a considerable number of key employees, contractor and Ordnance, both in safety, technical and operating departments, made visits to appropriate locations for consultation and training in various phases of safety and health.
- (1) Instructions given at Lake City by J. Murphy Watertown Arsenal Health Physicist on safety and health aspects pertaining to D₃₈.
 - (2) Contractor operator medical supervisor, safety supervisor, production engineer, control superintendent and others, including Ordnance representative, visited Fernald Plant JKAEC-National Lead (to consult on safety and health measures).
 - (3) Safety Engineers, contractors and Ordnance, visited Bendix-AEC plant for consultation.
 - (4) Chief Chemist, contractor operator, and numerous Ordnance Engineers (ICA-IED) visited Watertown Arsenal on consultation on air pollution and radiological controls. One member of Ordnance was a Physicist (Masters) whose background and education include knowledge and experience in basic course of atomic and nuclear physics and principles of ionizing radiation.
 - (5) Safety Engineer, Contractor Operation, took two weeks course in radiological monitoring (Radiological School, OCEM).
 - (6) Chief Process Engineer, Contractor Operation, visited Fernald Plant, Argonne National Laboratory, AEC-Albuquerque and Watertown Arsenal.
 - (7) Chief Supervisor in equipment and Chief Supervisor, Production Contractor, made visit to Watertown Arsenal to consult and study preparations prior to startup at ICA.