



DEPARTMENT OF THE ARMY  
SIERRA ARMY DEPOT  
HERLONG, CALIFORNIA 96113

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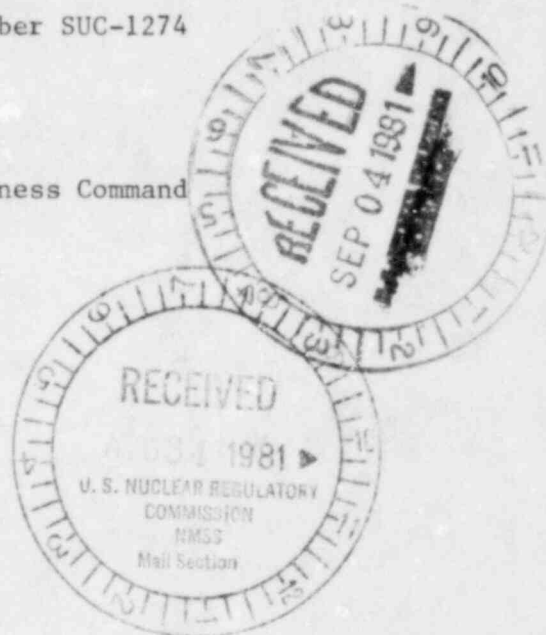
SESSI-CO

8 JUN 1981

SUBJECT: Renewal of Source Material License Number SUC-1274

THRU: Commander  
US Army Materiel Development and Readiness Command  
ATTN: DRCSF-P  
5001 Eisenhower Avenue  
Alexandria, VA 22333

TO: Director  
Nuclear Material Safety and Safeguard  
US Nuclear Regulatory Commission  
ATTN: Material Licensing Branch  
Washington, DC 20555



1. Renewal of Source Material License Number SUC-1274 (Inclosure 1) on 30MM depleted uranium ammunition is submitted. The expiration date for the current license is 30 September 1981.
2. Sierra Army Depot's current Source Material License Number SUC-1274 requires the random wipe test of external surfaces of containers packed with depleted uranium upon receipt. Sierra wishes to remove this constraint in the renewal to allow a more cost efficient operation and still provide an acceptable measure of safety to the personnel involved in handling 30MM ammunition.
3. Title 10, Code of Federal Regulations, Part 20.205 sets the minimum criteria for performing wipe tests. This criteria cites a quantity of three curies or more per package that requires wipe tests. Based on the data provided by Department of the Air Force (Inclosure 2), the quantity per round is approximately 99.2 microcuries. The "worst case" in the inventory is 490 API (DU) packed with 98 HEI. The resultant calculation is .0487 curies per package, a figure far below the minimum of Type A, Group III requiring wipe test.

FEE EXEMPT

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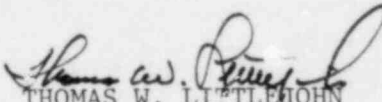
4. Letter, Aerojet Ordnance Company, 19 February 1981 (Inclosure 3), provides a statement of the manufacturing process by the manufacturer. The manufacturing process encapsulates the depleted uranium penetrator and does not expose the shipping and storage containers to this operation. The operation, to date, has provided containers free from contamination.

5. Since late 1976, Sierra Army Depot has performed over 7,000 swipe tests on the CNU-331/E containers. There was not a single swipe read above the background levels.

6. All shipments will be monitored externally by qualified personnel using radiac meters to detect contamination. In the event there is an indication of contamination, swipes and decontamination procedures will be implemented prior to handling.

7. The inspection of vehicles and packages bearing 30MM depleted uranium will be inspected and monitored in accordance with the provisions of Title 10, Code of Federal Regulations, Part 20.205 (c)(1), Monday through Friday, during duty hours. From close of business Friday until 0730 hours on Monday, it is requested that approval of 72 hours be granted to facilitate receiving operations without the use of overtime. All carrier equipment is "exclusive use" from the manufacturer to Sierra Army Depot.

3 Incl  
as

  
THOMAS W. LITTLEJOHN  
Colonel, OD  
Commanding