

ARCO Petroleum Products Company

Harvey Technical Center  
400 East Sibley Boulevard  
Harvey, Illinois 60426  
Telephone 312 333 3000

Research & Development

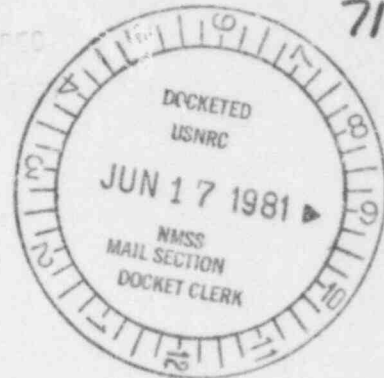


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PDR  
Return to  
D. Cramer  
396-55



May 1, 1981

U.S. Nuclear Regulatory Commission  
License Management Branch  
Washington, D. C. 20555

Gentlemen:

Atlantic Richfield holds N.R.C. License No. 12-00140-05 for a 1000 curie cobalt-60 sealed source, which by amendment No. 11 has been extended to August 31, 1981.

We have applied, by letter dated June 2, 1980, for permission to prepare and ship the source, but were informed that we would first need an approved quality assurance program. We have obtained NRC approval for our Q.A. Program (attached), and would like to proceed with the disposal.

In our letter to you dated June 2, 1980, we requested permission to use a G.E. 1600 cask, however, we now wish to use a G.E. 700 cask, which has adequate shielding ability to meet DOT requirements for this shipment. We will use an inner chamber which will hold the source on center and will be filled with leadshot to reduce the surface radiation level when the source is lifted out of the cask at the burial site. A drawing of the shipping container insert is attached.

Attached are letters from General Electric regarding the Q.A. status of the cask.

Also attached are outlines of the preparation procedure and the source shipment procedure. It is necessary to cut off the "basket" handles, as the entire source basket is too tall for the shipping cask. We will cut well above the cobalt rods to avoid any risk of cutting into the source. Also enclosed is a diagram of our cave.

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MAY 14 P3:04 '81

U.S. N.R.C.  
LIC. FEED

Applicant.....
Check No... 52431
Amount/Fee Category... 11000.00
Type of Fee... minor
Date Check Rec'd... 5/11/81
Received By... [Signature]

B107280061 B10501  
PDR ADOCK 07100430  
C PDR

QA for 71-0430  
19077 71-5942  
minor Amendment  
5/11/81 RHB

May 81-2

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U.S. Nuclear Regulatory Commission  
May 1, 1981  
Page 2

We would like your approval of these procedures and permission for the necessary operations. Please note that in our letter of June 2, 1980, our check for \$110 (amendment fee for a Type 3F license) was included.

If you have any questions or comments, please contact me at (312) 333-3000.

Yours very truly,

ARCO PETROLEUM PRODUCTS COMPANY



George A. Uhl  
Radiation Protection Officer

GAU:msk

Enclosures:

1. ARCO Q.A. Program Approval
2. Shipping Container Sketch
3. Shipping Container Insert
4. Letter from G.E. dated March 19, 1981
5. Letter from NRC to G.E. dated June 18, 1980
6. Preparation Procedure
7. Source Shipment Procedure
8. Diagram of Cave



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

APR 10 1981

FCTC:LLG  
71-0430

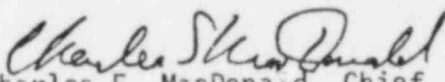
ARCO Petroleum Products Co.  
ATTN: G. A. Uhl  
400 E. Sibley Boulevard  
Harvey, IL 60426

Gentlemen:

Enclosed is Quality Assurance Program Approval for radioactive material packages No. 0430, Revision No. 0.

Please note the conditions included in the approval.

Sincerely,

  
Charles E. MacDonald, Chief  
Transportation Certification Branch  
Division of Fuel Cycle and  
Material Safety, NMSS

Enclosure: As stated

DUPE 8104210663

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