

Cardinal Health  
Nuclear Pharmacy Services  
Quality & Regulatory  
7000 Cardinal Place  
Dublin, OH 43017  
tel 614.757.4120  
fax 614.652.4598

www.cardinal.com



August 11, 2016

U.S. Nuclear Regulatory Commission  
Region III – Division of Nuclear Materials Safety  
2443 Warrenville Rd, Suite 210  
Lisle, IL 60532-4352

Re: Amendment Request for Radioactive Materials License 34-31473-03MD, Cardinal Health Nuclear Pharmacy Services, Dublin, OH.

Licensing:

Cardinal Health 414, LLC (Nuclear Pharmacy Services, hereafter Cardinal Health) requests an amendment for the above referenced license to add 1 curie of Thorium-227 in any form for preparation of radioactive drugs and distribution to authorized recipients.

If you have any questions regarding this request, please contact me at 614.757.9586.

Sincerely,

Glenn Sullivan  
Corporate Radiation Safety Officer  
Director, Health Physics  
Nuclear Pharmacy Services

cc: Benjamin Ellert, PRSO, Loc. 7220  
License File 7220 (3)  
Adam Timm  
Rick Hasselkus  
Katherine Benson

RECEIVED AUG 18 2016

ORIGIN ID: OSUA (614) 757-5074  
 DAN HILL  
 CARDINAL HEALTH  
 7000 CARDINAL PLACE

DUBLIN, OH 43017  
 UNITED STATES US

SHIP DATE: 15AUG16  
 ACTWGT: 1.00 LB  
 CAD: 104744132/INET3790

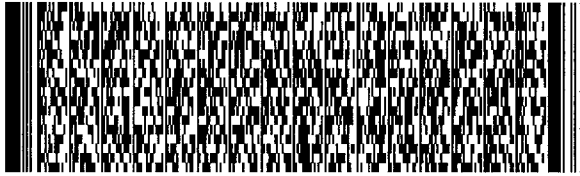
BILL SENDER

TO **NMSS LICENSING**  
**US NRC REGION III**  
**2443 WARRENVILLE ROAD**  
**SUITE 210**  
**LISLE IL 60532**

(630) 829-9854  
 INV:  
 PO:

REF: 2250001338

DEPT:



J16201897459/1ur

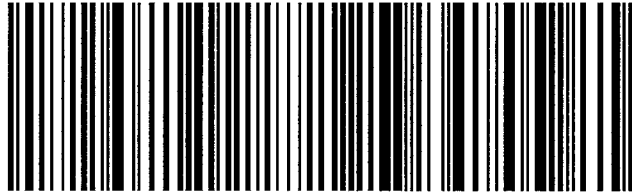
544J1/137014EB

TRK#  
 0201 7769 9211 8791

THU - 18 AUG 4:30P  
 EXPRESS SAVER

**SH ENLA**

60532  
 IL-US ORD



RECEIVED AUG 18 2016

**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.