

NRC FORM 7

(5-2005)
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0027

EXPIRES: 05/31/2006

APPLICATION FOR LICENSE TO EXPORT
NUCLEAR MATERIAL AND EQUIPMENT

(See Instructions on Reverse)

Estimated burden per response to comply with this mandatory collection request: 2.4 hours. This submittal is reviewed to ensure that the applicable statutory, regulatory, and policy considerations are satisfied. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0027), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

1. APPLICANT'S USE
a. DATE OF APPLICATION 01/12/2006
b. APPLICANT'S REFERENCE2. NRC USE
a. DOCKET NUMBER 11005599
b. LICENSE NUMBER XSNM03433

3. APPLICANT'S NAME AND ADDRESS

a. NAME
U. S. Department of Energy/Chicago Officeb. STREET ADDRESS (Facility Site)
9800 South Cass Avenue

c. CITY Argonne, d. STATE IL e. ZIP CODE 60439

f. TELEPHONE NUMBER 630-252-2073 g. FAX 630-252-2078 h. E-MAIL

5. FIRST SHIPMENT SCHEDULED February 06 6. FINAL SHIPMENT SCHEDULED February 07 7. APPLICANT'S CONTRACTUAL DELIVERY DATE

4. SUPPLIER'S NAME AND ADDRESS
(Complete if applicant is not supplier)a. NAME
Argonne National Laboratoryb. STREET ADDRESS
9700 So Cass Avenue

c. CITY Argonne d. STATE IL e. ZIP CODE 60439

8. PROPOSED LICENSE EXPIRATION DATE February 2008 9. CONTRACT NO.

10. ULTIMATE FOREIGN CONSIGNEE

a. NAME
PT BATAN Teknologi (PUSPIPTEK)b. STREET ADDRESS (Facility Site)
No 10 Serpong

c. CITY Tangerang d. COUNTRY Indonesia 15310

12. INTERMEDIATE FOREIGN CONSIGNEE

a. NAME

b. STREET ADDRESS (Facility Site)

c. CITY d. COUNTRY

14. INTERMEDIATE FOREIGN CONSIGNEE

a. NAME

b. STREET ADDRESS (Facility Site)

c. CITY d. COUNTRY

11. ULTIMATE END USE
(Include plant or facility name)

BATAN for testing and demonstrating in the (30 MW) GA Siwabessy (GAS) Reactor targets for the production of molybdenum-99. This work furthers the nonproliferation goals of the

11a. DATE REQUIRED Reduced Enrichment for Research

13. INTERMEDIATE END USE and Test Reactors Program

13a. DATE REQUIRED

15. INTERMEDIATE END USE

15a. DATE REQUIRED

16. COM CODE 17. DESCRIPTION (Include chemical and physical form of nuclear material; give dollar value of nuclear equipment and components) 18. MAX. ELEMENT WEIGHT 19. MAX. WT. % 20. MAX. ISOTOPE WEIGHT 21. UNIT

Uranium, either pure or as alloyed with appx 0.045 weight percent iron and 0.10 weight percent aluminum, in the form of thin (0.1-to0.2 mm thick) foils. The foils may be coated with a thin layer of nickel. The foils may be shipped separately or may be contained in irradiation targets. Uranium as metal pieces to be used as melt stock for ingot production or in the form of ingots (each) for the rolling of the above mentioned thin foils by PT BATAN Teknologi personnel.

22. FOREIGN OBLIGATIONS BY COUNTRY AND PERCENTAGE (Use separate sheet if necessary)

23. ADDITIONAL INFORMATION ON CONSIGNEES, END USES, AND PRODUCT DESCRIPTION (Use separate sheet if necessary)

24. The applicant certifies that this application is prepared in conformity with Title 10, Code of Federal Regulations; and that all information in this application is correct to the best of his/her knowledge.

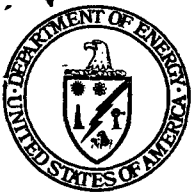
25. AUTHORIZED OFFICIAL

a. SIGNATURE

Jolene Bissegger

b. TITLE

Lead Security Specialist



Department of Energy
Chicago Operations Office
9800 South Cass Avenue
Argonne, Illinois 60439

XSNM03433
11005599

JAN 13 2006

Ms. Janice Owens
Export/Import Licensing Officer
Office of International Programs
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Ms. Owens:

**SUBJECT: APPLICATION FOR LICENSE TO EXPORT NUCLEAR MATERIAL U.S.
DEPARTMENT OF ENERGY - CHICAGO OFFICE**

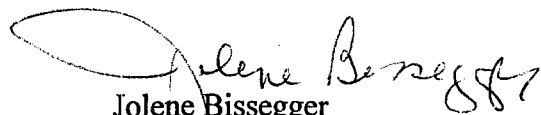
Enclosed is a completed NRC Form 7, Application for License to Export Nuclear Material and Equipment, for the Chicago Office, U. S. Department of Energy.

As indicated on the license application, the supplier of the material will be the Argonne National Laboratory. The intended receiver is PT BATAN Teknologi, Tangerang, Indonesia. The Reduced Enrichment for Research and Test Reactors (RERTR) program and BATAN have been cooperating for more than ten years in developing a commercially viable uranium-metal-foil target for producing fission product ⁹⁹Mo using low enriched uranium (LEU). NRC Export License XSNM02814, which expired December 31, 2002, previously covered these exports. This program furthers the nonproliferation goals of the U. S. Government.

Attached is a more detailed description of the request for the export license.

If you have any questions regarding these completed forms, please contact me at 630-252-2073.

Sincerely,


Jolene Bissegger
Safeguards and Security Services

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Enclosure:
As Stated

cc: T. Lang, ANL, w/encl.
A. Leyva, ANL, w/encl.



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ARGONNE
NATIONAL
LABORATORY

INTRA-LABORATORY MEMO

January 6, 2006

To: T. A. Lang OCF-PIM
From: A. Leyva *al* CMT
Subject: Export of Low-Enriched Uranium to Indonesia

The Reduced Enrichment for Research and Test Reactors (RERTR) program and BATAN (Indonesian National Nuclear Energy Agency) have been cooperating for more than ten years in developing a commercially viable uranium-metal-foil target for producing fission-product ⁹⁹Mo using low-enriched uranium (LEU). In return for irradiation and chemical processing services provided by BATAN and one of its spin-off companies, PT BATAN Teknologi, at the PUSPIPTK R&D complex near Serpong, ANL has been providing the LEU metal needed to test and demonstrate targets (ref. NRC License No. XSNM02814, which expired on December 31, 2002). Additional exports of LEU metal (up to [REDACTED] of uranium) are required to continue the cooperative work, which is expected to result in the conversion of Mo-99 production in Indonesia and a number of other countries to LEU. The LEU metal itself will be either "pure" uranium or an "adjusted" uranium alloy, containing ~1000 ppm aluminum and ~450 ppm iron. It will be provided in the form of metal pieces, ingots for foil rolling, or rolled foils. We intend to use LEU metal already at ANL and assigned to the RERTR program for this purpose. PT BATAN Teknologi will be the ultimate end user.

Please request Jolene Bissegger (DOE-CH/SSS) to submit an export license application to the Nuclear Regulatory Commission for the export of this LEU. The DOE program manager for the RERTR program, Parrish Staples (NA-212), fully supports this request. Please ask Ms. Bissegger to provide me a copy of the export license application and any cover letter transmitting it to the NRC. In addition, I will need a copy of the license when it is issued.

Here is the particular information you will need for the export license application:

First Shipment Scheduled – February 2006

Final Shipment Scheduled – February 2007

Proposed License Expiration Date – February 2008

Ultimate Consignee – PT BATAN Teknologi (PUSPIPTK)
No. 10 Serpong, Tangerang Indonesia 15310

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- 2 -

Ultimate End Use – BATAN for testing and demonstrating in the (30 MW) GA Siwabessy (GAS) Reactor targets for the production of molybdenum-99. This work furthers the nonproliferation goals of the Reduced Enrichment for Research and Test Reactors program.

Description – Uranium, either pure or as alloyed with approximately 0.045 weight percent iron and 0.10 weight percent aluminum, in the form of thin (0.1- to 0.2-mm-thick) foils. The foils may be coated with a thin (approximately 0.15- μ m-thick) layer of nickel. The foils may be shipped separately or may be contained in irradiation targets. Uranium as metal pieces to be used as melt stock for ingot production or in the form of ingots (each) for the rolling of the above mentioned thin foils by PT BATAN Teknologi personnel.

Max. Element Weight – [REDACTED]

Max. U-235 Wt.% – [REDACTED]

Max. Isotope Wt. – [REDACTED]

Unit – [REDACTED]

If you need additional information, please call me. Thank you for your assistance in this matter.

cc: Allen Bakci
Jordi Roglans
James Snelgrove
Tom Wiencek
George Vandegrift

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