

DCS/DF02
APPROVED BY OMB
3150-0027
EXPIRES 12-31-90

APPLICATION FOR LICENSE TO EXPORT NUCLEAR MATERIAL AND EQUIPMENT (See Instructions on Reverse)

1. APPLICANT'S USE USE		a. DATE OF APPLICATION June 13, 1991		b. APPLICANT'S REFERENCE RIS		2. NRC USE 110044576		a. DOCKET NO. X5048708		b. LICENSE NO. RIS	
3. APPLICANT'S NAME AND ADDRESS a. NAME Molycorp, Inc. b. STREET ADDRESS 1201 W. Fifth Street c. CITY Los Angeles STATE CA ZIP CODE 90017 d. TELEPHONE NUMBER (Area Code - Number - Extension) 213-977-5166						4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier of material) See letter dated June 13, 1991 a. NAME					
5. FIRST SHIPMENT SCHEDULED As soon as license issued		6. FINAL SHIPMENT SCHEDULED Ten Years		7. APPLICANT'S CONTRACTUAL DELIVERY DATE As Required		8. PROPOSED LICENSE EXPIRATION DATE 10 Years		9. U.S. DEPARTMENT OF ENERGY CONTRACT NO. (If Known) Not Applicable			
10. ULTIMATE CONSIGNEE a. NAME Various - See letter June 13, 1991 b. STREET ADDRESS c. CITY - STATE - COUNTRY						11. ULTIMATE END USE (Include plant or facility name) Rare Earths (lanthanides) have over 150 commercial applications including glass polishing compounds, catalysts, steel, magnets and television phosphors. Thorium and uranium are impurities. 11a. EST. DATE OF FIRST USE					
12. INTERMEDIATE CONSIGNEE a. NAME Various b. STREET ADDRESS c. CITY - STATE - COUNTRY						13. INTERMEDIATE END USE Molycorp manufactures and sells products to foreign and domestic manufacturers in many different industries from its rare earth processing facilities. 13a. EST. DATE OF FIRST USE					
14. INTERMEDIATE CONSIGNEE a. NAME Not Applicable b. STREET ADDRESS c. CITY - STATE - COUNTRY						15. INTERMEDIATE END USE Not Applicable 15a. EST. DATE OF FIRST USE					
16. NRC USE		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	
		Natural thorium/uranium (in concentrates ranging from 0.05 percent to 1.0 percent) contained as contaminants in rare earth products. 9106260185 910613 PDR EXPORT PDR XSDU-8708 PDR				9,500 kilograms		1.0	Natural Thorium/ Uranium	N/A	
22. COUNTRY OF ORIGIN - SOURCE MATERIAL USA				23. COUNTRY OF ORIGIN - SNM WHERE ENRICHED OR PRODUCED USA				24. COUNTRIES WHICH ATTACH SAFEGUARDS (If Known) Unknown			
25. ADDITIONAL INFORMATION (Use separate sheet if necessary) This request is for issuance of specific license authorizing export of the materials in description 17 to all countries except Cuba, Kampuchea, North Korea and Vietnam. Additional information in letter dated June 13, 1991, replaces NRC export license XT0852.											
26. 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.											
27. AUTHORIZED OFFICIAL Edmund C. Barnum				a. SIGNATURE 				b. TITLE Manager, Technical Services			

nrc.exp

Molycorp, Inc.
A Unocal Company
1201 West 5th Street, P.O. Box 54945
Los Angeles, California 90054
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MOLYCORP

X50U8707
11004455

Edmund C. Barnum
Manager, Technical Services

June 13, 1991

X50U8708
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Ms. Betty L. Wright
Export/Import Licensing Officer
Office of International Programs
United States Nuclear Regulatory Commission
Washington, D. C. 20555
Tel. No. 301-492-0342
Fax. No. 301-492-0395

Dear Ms. Wright,

Request for Export Licenses

Attached are Molycorp's requests for two specific licenses authorizing export of lanthanide (rare earth) products containing up to 1.0% weight thorium and/or uranium. The applications have been filed on NRC Form 7 in accordance with Part 110 of Title 10, Chapter 1, Code of Federal Regulations-Energy.

The first request is for a specific license for 200,000 kilograms and would be replacing the current license XT08558. Countries to be covered would include Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Japan, Luxembourg, Mexico, Netherlands, Norway, South Korea, Spain, Sweden, Switzerland, Taiwan, and United Kingdom. Our previous license which expires in December, 1992, and does not include Taiwan and South Korea, was issued for 100,000 kilograms. Currently, Molycorp has shipped over 82,000 kilograms of thorium impurities under this license that was issued November 23, 1982.

The second request is for a specific license for 9,500 kilograms to cover all countries except Cuba, Kampuchea, North Korea, and Vietnam. This license would replace XT08552 that was amended November 23, 1982 and issued for 9,500 kilograms. Molycorp currently exports material to South Korea and Taiwan under this license and it is primarily the increased shipments to these two countries that has filled the limit for this license. Other countries that we have shipped to under this license are Argentina, Brazil, Egypt, Hungary, and New Zealand.

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EXPORT IMPORT
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Molycorp, Inc., is a Unocal Company, headquartered in Los Angeles. Our Mountain Pass, California, deposit of bastnasite is the only commercial significant lanthanide deposit in the United States. Molycorp has lanthanide processing plants in Mountain Pass; Louviers, Colorado; York, Pennsylvania; and Washington, Pennsylvania. These licenses would permit shipments from all four plants. The addresses for the plants are as follows:

Molycorp, Inc.
Mountain Pass Mine
67750 Bailey Road at I-15
Mountain Pass, CA 92366
Tel. 619-856-2201

Molycorp, Inc.
Louviers Plant
P.O. Box 37
9481 N. Highway 85
Louviers, CO
Tel. No. 303-791-7600

Molycorp, Inc.
York Plant
350 N. Sherman Street
York, PA 17403
Tel. No. 717-844-2624

Molycorp, Inc.
Washington Plant
300 Caldwell Avenue
Washington, PA 15301
Tel. No. 412-222-5605

Bastnasite is a primarily a lanthanide fluorocarbonate mineral. The Mountain Pass orebody also contains small amounts of monazite, primarily a lanthanide thorium phosphate. The predominate lanthanides are cerium, lanthanum, neodymium, and praseodymium.

Molycorp manufactures and sells a wide variety of individual and mixed lanthanides including oxides, carbonates, chlorides, hydrates, nitrates, oxalates, and fluorides. All of Molycorp's customers consider thorium to be an impurity and no further separation of the thorium is undertaken by our customers. Natural thorium is currently only present in three of our products. At Mountain Pass, Molycorp produces bastnasite concentrate with about 0.1% thorium and cerium concentrate with about 0.2% thorium. At York, a natural cerium fluoride product has about 0.5% thorium.

Natural uranium is also present in all three products but in quantities less than one-tenth of the thorium values in these products (i.e. 20-90 ppm in bastnasite concentrate).

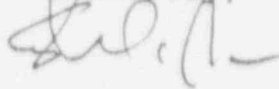
The bastnasite and cerium concentrates are exported widely in container quantities. The cerium fluoride product has only been exported to Canada in small quantities. Our Mountain Pass facility does not have a source license as all materials are exempt from licensing requirements under Part 10 CFR 40.13 (c) (1) (vi) "rare earth metals and compounds, mixtures, and products containing not more than 0.25 percent by weight thorium, uranium, or and combination of these". Discussions are underway with the State of California which is an agreement state for a source/NORM license regarding process residues. The York plant has a NRC source license, SMB-1408. The Washington plant has a NRC source license, SMB-1392. The Louviers plant has license number 500-03 from the State of Colorado as Colorado is also an agreement state.

Lanthanides have over 150 commercial applications. Cerium and bastnasite concentrates are primarily used in glass polishing compounds, glass additives for CRT screens, and as feedstock for ferroalloys for iron and steel.

The Mountain Pass plant maintains a logbook recording the estimated amount of thorium in each export shipment of bastnasite and cerium concentrates. A cumulative total is calculated after each shipment for the appropriate license. This logbook is available for inspection by representatives of the NRC or the State of California.

Thank you again for your cooperation.

Sincerely,



Edmund C. Barnum