

# Special Items and Explosives Guideline - 6.15.G (12/15/99)

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This guideline has been reformatted for placement on Sandia's External Web site.

## Definitions

**Nuclear Hot Cell Services** means services related to the examination of, or performance of various operations on, nuclear rods, control assemblies or other components that are emitting large quantities of ionizing radiation, after discharge from nuclear reactors, which are performed in specialized facilities located away from commercial nuclear power plants, generally referred to in the industry as hot cells.

**Nuclear Material** includes source material, special nuclear material, and other material

designated by DOE.

**Precious Metal** is defined as all forms of:

- gold
- silver
- platinum
- iridium
- osmium
- palladium
- rhodium
- ruthenium

**Precious Metals** may be contained in alloys (in forms of wire, strip, sheet, foil, etc.) identified by trade names such as:

- Incusil
- Nicoro
- Neydium
- Permabrazo
- Paliney 7
- Croniro
- Nioro
- Cusil
- Wesgo
- Silvaloy
- Incuro
- Palniro
- Neyoro G
- Engaloy
- Silcoro
- Platinel
- Georo
- Paloro

**Radioactive Material** includes all radioisotopes, byproduct materials, radium, radium compounds, and irradiated material.

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## Nuclear and Radioactive Materials - 6.15.G.1

This table shows types of nuclear materials.

### Source Materials

- depleted uranium
- normal uranium
- thorium

### Special Nuclear Materials

- enriched uranium
- plutonium 238-242
- uranium 233
- neptunium 237

### Other Nuclear Materials

- americium 24
- americium 243
- curium
- berkelium
- californium
- lithium 6
- deuterium

- tritium

**Note:** Other nuclear materials are those designated by the Asst. Secretary of Defense - Programs for DOE.

The solicitation and any order/contract must include applicable material specification or composition data and SC 803-NU.

## **Shipping Nuclear Materials 6.15.G.1.a**

The Shipping, Receiving and Mail Services Department will route all FOB Origin shipments of nuclear and radioactive material.

The ship to must include:

- **For Delivery to:**
- Nuclear Material Representative (NMR)
- Nuclear/General Material Storage Team (SNL/NM)
- **or:**
- Property Management Department
- Attn: Nuclear and Classified Material Control
- Bldg. 928 (SNL/CA)

## **Packaging and Labeling - 6.15.G.1.b**

All nuclear and radioactive materials must be packaged, marked, labeled, and prepared for shipment in accordance with the Department of Transportation Code of Federal Regulations (CFR) 49 Parts 100-199. Copies are available from the Procurement Policies and Procedures Team. Questions concerning packaging and labeling should be referred to the Hazardous Material Packaging Consultants in Shipping, Receiving and Mail Services Department at SNL/NM (Logistics and Procurement Department at SNL/CA).

## **Deuterium Oxide (Heavy Water) - 6.15.G.1.c**

Use an FAO to purchase deuterium oxide (heavy water).

## **Uranium and Plutonium - 6.15.G.1.d**

Special Draft Information on the PR (Project No., Draft No.) must be included on the solicitation and order/contract.

## **Strategic and Critical Material - 6.15.G.1.e**

Place an FAO to purchase strategic and critical material.

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## **Nuclear Hot Cell Services - 6.15.G.2**

### **Contractor Selection Criteria - 6.15.G.2.a**

All Contractor selection evaluation criteria shall consider the costs related to the decommissioning of nuclear facilities and storage and disposal of nuclear waste in such a way that affords U.S. and foreign companies equal competition. Use SC 616-NC in all solicitations covering nuclear hot cell services.

DOE regulations require that in awarding contracts for nuclear hot cell services at non-DOE-owned or leased facilities, selection cost criteria must either apply the same regulatory costs to foreign competitors or otherwise exclude the regulatory costs applied to U.S. companies.

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## **Precious Metals - 6.15.G.3**

Procure all precious metals from Lockheed Martin Energy Systems, P.O. Box 2009; Bldg. 9113, MS 8207; Oak Ridge, Tennessee 37831.

**Exception:** precious metal may be procured from another commercial source if:

- Lockheed Martin Energy Systems cannot supply the metal, or
- the source is an IC, or
- the total value of the precious metal content of an ordered item does not exceed \$100.

These metals will then be supplied to commercial suppliers for fabrication under a separate contract.

### **Shipping Instructions - 6.15.G.3.a**

Include in the order/contract:

- Deliver To: Property Inventory Section (SNL/NM), **or**
- Logistics and Procurement Department (SNL/CA).

If applicable:

- material specification or composition (nonproprietary) data,
- cross reference or unit of issue required and unit of issue furnished,
- certified weight for each unit of issue and tare of container or spool,
- disposition instructions for residual material,
- shipment instructions, and
- instruction for packages to be marked with order/contract number and "Open by Property Inventory Section (SNL/NM) or Logistics and Property Department (SNL/CA) only.

## **Fluctuations in Market Prices - 6.15.G.3.b**

When rapid fluctuations in market prices of precious metals occur, some Contractors will not give a firm offer and may insist that the price be subject to a time-of-shipment precious metal adder. Such offers may be acceptable provided:

- the Contractor furnishes the basis on which the precious metal adder is to be computed, and
- a provision is incorporated in the procurement document limiting any price increase to the amount computed in accordance with the quoted precious metal adder formula.

Include this provision if an adder is appropriate:

**"A surcharge may be added to the unit price(s) provided such surcharge has been computed in accordance with the Contractor's offer dated (date of offer) and is billed separately for each item."**

## **Price Adjustments - 6.15.G.3.c**

If the order/contract makes no provision for a price adjustment and the Contractor notifies the SCR that the price will be adjusted to either the price in effect at the time of shipment or that an adder will be applied at the time of shipment, the SCR will notify the Contractor that SNL expects delivery at the quoted price and failure to do so may cause the Contractor to be in breach of contract.

**Exception:** In rare instances where delivery of the product using precious metal at the quoted price would place extreme hardship on a business firm, the SCR may consider a price adjustment or effect a no-cost termination. Such actions are to be handled on a case-by-case basis and will require prior Procurement Department Manager approval. The contract file must be adequately documented to reflect the rationale for the action taken.

## **Purchasing Gold - 6.15.G.3.d**

SNL does not require a license to buy gold since title is vested in the Government. Purchase gold from a Government agency or a commercial firm that holds a U.S. Treasury Department gold license.

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## Helium - 6.15.G.4

The Helium Act and Federal Regulations provide for conservation of helium. Whether in gaseous or liquid form, helium shall be purchased from the Bureau of Mines or from the Bureau of Mines distribution Contractors.

Unless the purchase of helium is from the Bureau of Mines directly, include the following statement "Helium furnished under this contract shall be Bureau of Mines helium" in the order/contract and forward a copy of each to:

The Bureau of Mines  
Division of Helium Operations  
801 South Fillmore Street, Suite 500  
Amarillo, TX 79101-3545

### Government Priority for Helium - 6.15.G.4.a

The standard "Government Priority DO-E2" statement does not apply to the procurement of helium. If a DO or DX priority applies, include the following statement on the order:

**"Helium under this order is necessary and required in connection with DOE contract number <insert prime contract number> and is for a program that is authorized a <insert DO-E2 or DX-E2> rating."**

Similarly, where it is known that a Contractor will be required to purchase helium for the performance of work under an SNL contract, instruct the Contractor to incorporate the following statement in all such orders for helium:

**"Helium under this order is necessary and required in connection with Sandia National Laboratories Purchase Order/contract No. \_\_\_\_\_ and is for a program that is authorized a \_\_\_\_\_ (DO-E2 or DX-E2) rating."**

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## Jewel Bearings - 6.15.G.5

The government-owned, Contractor-operated William Langer Jewel Bearing Plant, Rolla, North Dakota, is operated in order to maintain a jewel bearing production facility in the U.S. as a part of the industrial mobilization base. Jewel bearings shall be purchased from this plant.

If the SCR anticipates that jewel bearings may be required in connection with the work done on a contract, the SCR must require the Contractor to certify that any jewel bearing required will be purchased from the William Langer Jewel Bearing Plant when possible. The Contractor must also estimate the jewel bearing related items which will be required.

The Contractor will submit the certificate and estimate to the SCR who in turn will forward a copy to the William Langer Jewel Bearing Plant.

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## Explosives Procurement Procedures - 6.15.G.6

The SCR shall incorporate the following into the Procurement documents.

<b>Topic</b>	<b>Description</b>
Requisition Line	SCR must type in the word "EXPLOSIVE" for each line item where explosives are being acquired.
Ship Via Instructions	If it is SNL's responsibility to select the carrier, then the SCR shall: <ul style="list-style-type: none"><li>- at SNL/NM, call Traffic Analysts in the Shipping, Receiving and Mail Services Department, or</li><li>- at SNL/CA, call Traffic in Logistics and Procurement Department.</li></ul>
Routing Instructions	At SNL/NM incorporate by reference the Movement of Explosive Cargo Form SA 6432-MEC in the contract. The form shall be transmitted annually or more frequently if deemed necessary for ICOs and FAOs.

### Classification of Explosives - 6.15.G.6.a

Explosives are classified for the purpose of shipment in accordance with Department of Transportation (DOT) regulations. It is the responsibility of the vendor who ships the product to classify same. The SCR shall ascertain this information from the selected source in order to determine the applicability of Form SA 6432-MEC, Movement of Explosive Cargo.

**Note:** Since regulations place the responsibility for the classification of an explosive shipment with the Contractor, the explosive classification need not be indicated on the procurement document.

## Commerce in Explosives - Exemption - 6.15.G.6.b

SNL, as a DOE prime Contractor, is exempt from regulations requiring a permit or other controls in the procurement of explosives. Reference the applicable Section II Standard Ts&Cs.

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Send feedback on ideas and information on this page to the Process Expert, Bertie Denman.

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