



DEPARTMENT OF THE NAVY  
NAVAL OCEAN SYSTEMS CENTER  
SAN DIEGO, CALIFORNIA 92152

IN REPLY REFER TO:

WCS:vmf

5100

Ser 155/20

15 JUN 1982

From: Commander, Naval Ocean Systems Center  
To: Nuclear Regulatory Commission, Material Certification and Procedures  
Branch, Washington, D.C. 20555  
Attn: Mr. Earl Wright  
Via: Naval Energy and Environmental Support Activity, Port Hueneme, CA 93043  
Subj: NRC license SUB 1113, Control No. 19651

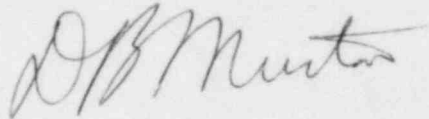
Ref: (a) Nuclear Regulatory Commission ltr FCMC:EGW 19651 dtd 25 Mar 82

1. Reference (a) asked four questions about the renewal to NRC license SUB 1113 that Naval Ocean Systems Center (NOSC) submitted on 6 November 1981.
2. Question number one requested a better description of the use of the radioactive source material. The source material will be used in various research and development programs. For example: as a target for an accelerator beam; as a source of beta, gamma, or alpha radiations; for use to calibrate detection instruments; as a shield to protect instruments or people; as a tracer for use in sea water studies; as a chemical component in biological studies; as a projectile (not to be fired); as weights to counterbalance equipment; or as parts of various physics packages.
3. Question number two requests a list of the isotopes, forms and quantities of any source material other than natural uranium, depleted uranium, or natural thorium. No other isotopes but natural/depleted uranium and natural thorium are planned, but there may be induced activity from particle beam bombardment.
4. Question number three refers to exposure of people in excess of Title 10, Code of Federal Regulations, Part 20. In our application, we state no aerosol producing operations are planned. Also, if appropriate, survey meters, heavy leather gloves, and protective clothing would be used. Any source material producing significant radiation exposures would be used in accordance with NOSCINST 5100.2A of 15 August 1980, which you have.
5. Question number four asks about radiation protection controls and administrative procedures for using source material at sites other than at NOSC San Diego, CA. Normally, the Radiation Control Committee would meet and decide on protective procedures required. Most procedures are identical to those for use of by-product materials and are outlined in NOSCINST 5100.2A of August 1980.

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6. In NOSC's application for renewal of SUB 1113, we requested authorization for use of radioactive material worldwide. This is because NOSC uses ships and facilities at a number of locations and it is impossible to bring experiments to San Diego. NOSC owns facilities in San Diego, CA, Morris Dam, CA, San Clemente Island, CA, Kailua, HI, Bayview, ID, and uses other facilities and equipment worldwide. To date we have not received a reply to our request.
7. For additional information contact William C. Salsbury, (714) 225-6458.



**D. B. MURTON**  
By direction