



STS Consultants Ltd.  
111 Pfingsten Road  
Northbrook, Illinois 60062  
312-273-5440

November 1, 1983

Ms. Pat Vacherlon  
Nuclear Regulatory Commission - Region 3  
Material Licensing Branch  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

RE: Byproduct Material License Renewal No. 12-05672-02, Control No. 15756

Dear Pat:

As requested by you, we have enclosed a sketch of our Willowbrook, Illinois storage facility and our up-dated Radiation Safety and Emergency Procedures. Also enclosed is an up-dated "Shippers Declaration for Dangerous Goods" as well as a "Material Encapsulated Form" from Campbell Pacific Nuclear.

Thank you for your time in this renewal and if you have any further questions, please contact me at (312)273-5440. We look forward to receiving our renewal license shortly.

Very truly yours,

STS CONSULTANTS, LTD.

*Robert J. Hubbard*

Robert J. Hubbard  
Field Services Supervisor

RECEIVED BY LPTD	
Date	4/1/85
Log	Apr - 16th
By	g
Chg. To	
Action Comp.	4/1/85

8506060237 841023  
REG3 LIC30  
12-05672-05 PDR

RECEIVED

NOV 3 1983

REGION III

NOV 3 1983

**FEE EXEMPT**

New license 12-05672-05  
being issued to replace  
12-05672-04 which  
was terminated by  
mistake

CONTROL NO. 28805

~~4/1/85~~  
~~15756~~



STS CONSULTANTS, LTD.

RADIATION SAFETY AND EMERGENCY PROCEDURES PROGRAM

**STS Consultants Ltd.**

111 Pfingsten Road  
Northbrook, Illinois 60062

312-273-5440

To ensure compliance with the provisions of 10CFR Part 19, "Notices, Instructions and Reports to Workers, Inspection", and Part 20, "Standards for Protection Against Radiation", STS Consultants, Ltd. has established the following procedures for usage of the nuclear density and moisture gauges.

Item A - Accident Assistance

In the event of an accident involving physical damage to a gauge, the vehicles involved in the accident must be stopped, the area roped off and people kept away from the area until a radiation survey can be performed. In addition, contact supervisory personnel listed on the Radiological Assistance sheet enclosed with each unit. This sheet indicates the names and telephone numbers of individuals to be notified immediately in the event of an accident or loss of a gauge.

Item B - Transport

Safety measures to be used in transporting the devices in the user's vehicles shall include transporting the unit in the manufacturer's shipping container. The shipping container should be locked at all times. In addition, the shipping container should be kept away from the passenger compartment as far as possible.

Item C - Storage

To prevent unauthorized access to the unit in the field, the unit or the shipping container should be locked when not in use or when not under the user's direct supervision. When the units are stored on the job site, the job construction trailer should be locked when the unit is not under the user's observation.

To prevent unauthorized access or removal of the gauges from the storage place in the laboratory, the door is locked at all times and only laboratory supervisors have the key.

Item D - Maintenance and Leak Testing

The user is not to tamper with, dismantle or remove any parts of the gauges. Any servicing, internal repairs and any dismanteling is to be performed by the manufacturer.

Leak tests on each instrument is required every six months and will be performed by supervisory personnel.

Item E - Documents and Film Badges

Each user is required to keep with each unit the required license, leak test certificate, emergency procedures and the operator manual. Each user is required to wear a film badge when using the unit. The film badge is not be stored any place near the unit.

STS Consultants, Ltd.

DATE \_\_\_\_\_

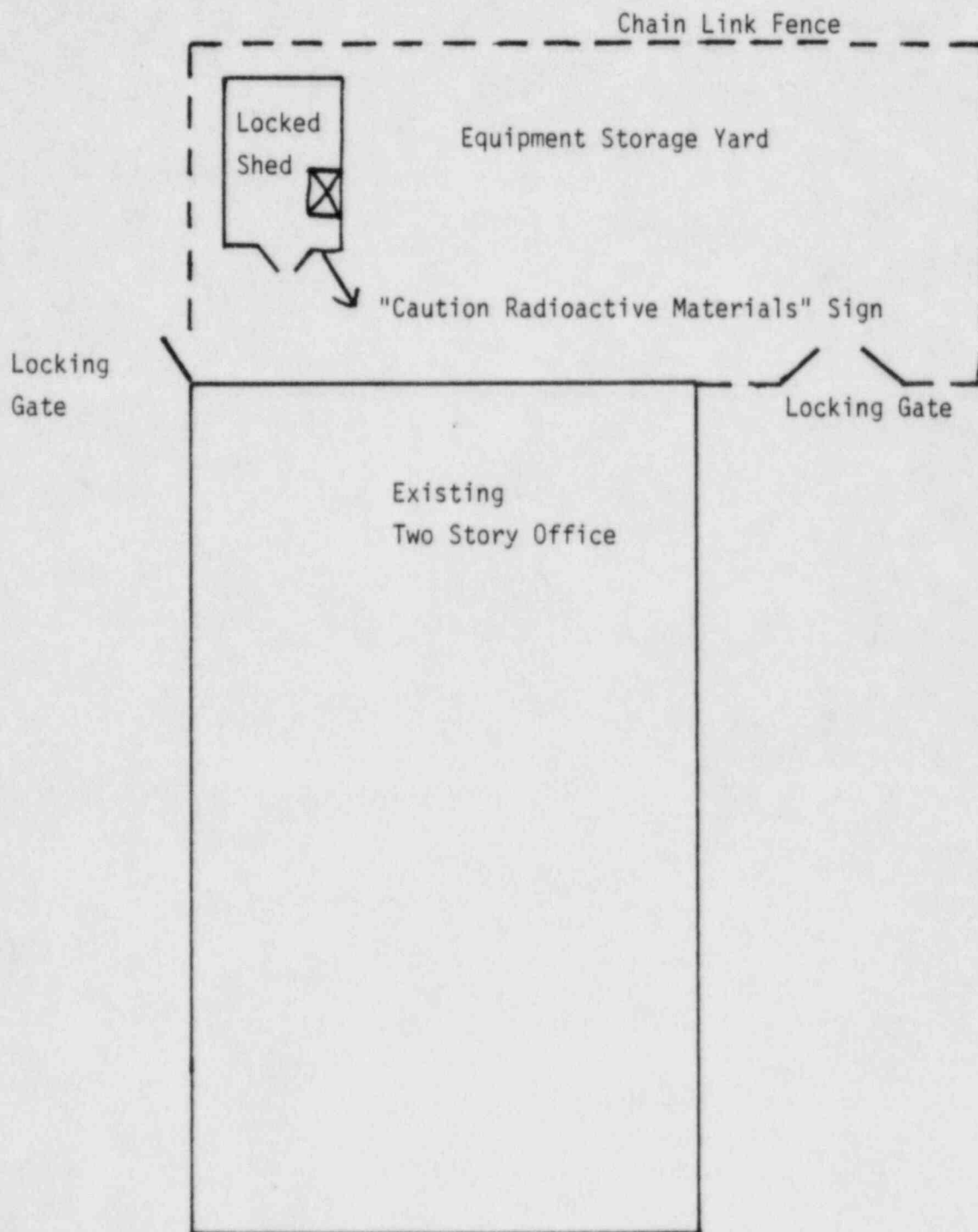
PAGE \_\_\_\_ OF \_\_\_\_

PROJECT Nuclear Meter Storage STS JOB NO. \_\_\_\_\_

BY RJH

CHK \_\_\_\_\_

Nuclear Meter Storage Facility  
S.T.S. Consultants, Ltd.  
835 Midway Drive, Willowbrook, Ill.



CONTROL NO. 7 8 3 0 5

~~C/N 15950~~

Shipper

S.T.S. CONSULTANTS, LTD.

111 Pfingsten Road  
Northbrook, Illinois

Air Waybill No.

Page of Pages

Shipper's Reference Number  
(optional)

Consignee

Two completed and signed copies of this Declaration must  
be handed to the operator.

## TRANSPORT DETAILS

This shipment is within the  
limitations prescribed for:

(delete non-applicable)

<del>PASSENGER -</del>	CARGO AIRCRAFT ONLY
<del>PERMIT</del>	
<del>PERMIT</del>	
<del>PERMIT</del>	

Airport of Destination:

## WARNING

Failure to comply in all respects with the applicable  
Dangerous Goods Regulations may be in breach of the  
applicable law, subject to legal penalties. This Declaration  
must not, in any circumstances, be completed and/or  
signed by a consolidator, a forwarder or an IATA cargo  
agent.

Shipment type: (delete non-applicable)

<del>NON-RADIOACTIVE</del>	RADIOACTIVE
----------------------------	-------------

## NATURE AND QUANTITY OF DANGEROUS GOODS

## Dangerous Goods Identification

Proper Shipping Name	Class or Divi- sion	UN or ID No.	Subsidi- ary Risk	Quantity and type of packing	Packing Inst.	Authorization
Radioactive Material Special Form, N.O.S. Cs-137 / Am-241:Be, Metal Solid	7	UN 2974		Type A Package 0.010 Ci / 0.050 Ci	II Yellow T.I.- Q1  DIM. 35x47x 79cm.	Special Form Certific- ation  GB 140/S GB 7/S

Additional Handling Information

I hereby declare that the contents of this consignment are fully and accurately  
described above by proper shipping name and are classified, packed, marked  
and labelled, and are in all respects in the proper condition for transport by air  
according to the applicable International and National Government Regula-  
tions.

CONTROL NO. 78305

Name Title of Signatory

Radiation Safety Officer  
Place and Date Sept. 30, 1983

S.T.S., Northbrook, Ill.

Signature

see warning above



U.S. Department  
of Transportation

Research and  
Special Programs  
Administration

400 Seventh Street, S.W.  
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY

Special Form Radioactive Material Encapsulation

Certificate Number USA/0115/S

(Revision 3)

This certifies that the encapsulated source, as described, when loaded with the authorized radioactive contents, has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in IAEA 1/ and USA 2/ regulations for the transport of radioactive materials.

1. Source Description — The source described by this certificate is identified as Gulf Nuclear, Inc., Model VL-1 which is a double encapsulation constructed of stainless steel and measures from 1/8 to 1 inch in diameter and from 1/4 to 3 inches long.
2. Radioactive Contents — The authorized radioactive contents of this source consist of not more than 1 curie of americium-241, cobalt-60, cesium-137, barium-133, mercury-197 or -203, chromium-51 or iridium-192.
3. This certificate, unless renewed, expires March 1, 1988.

This certificate is issued in accordance with paragraph 803 of the IAEA Regulations 1/ and in response to the February 9, 1983 petition by Campbell Pacific Nuclear and in consideration of the associated information therein.

Certified by:

Richard R. Rawl  
Chief, Radioactive Materials Branch  
Office of Hazardous Materials Regulation  
Materials Transportation Bureau

March 7, 1983  
(DATE)

1/ "Safety Series No. 8, Regulations for the Safe Transport of Radioactive Materials, 1973 Revised Edition" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2/ Title 49, Code of Federal Regulations, Parts 100-199, USA.

Revision 1—extended expiration date.

Revision 2—reflected conformance to the 1973 IAEA Regulations.

Revision 3—extended expiration date.

CONTROL NO. 7 8 3 0 5

~~15756~~



## CONVERSATION RECORD

TIME

10:00 AM

DATE

9-22-83

TYPE

☐ VISIT☐ CONFERENCE☐ TELEPHONE☐ INCOMING☐ OUTGOING

ROUTING

NAME/SYMBOL

INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT  
WITH YOU

Richard Hubbard

ORGANIZATION (Office, dept., bureau,  
etc.)

STS Consultants

TELEPHONE NO.

272-6520

SUBJECT

deficiency in the following areas:

SUMMARY

1. Storage sketch for the Willowbrook, IL  
address.2. Copy of Emergency procedures referenced  
in application as being attached to gauges.

ACTION REQUIRED

Gave him 30 days to reply.

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

P. M. Vachulox

DATE

9-22-83

ACTION TAKEN

SIGNATURE

TITLE

CONTROL NO. 48305

DATE