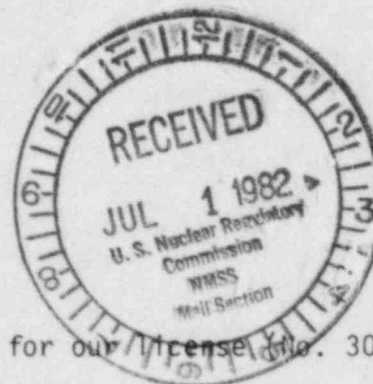


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P.O. BOX 86 • FARMINGTON, N.M. 87401 • PHONE: (505) 327-5251

June 18, 1982

John W. N. Hickley
Material Licensing Branch
Division of Fuel Cycle and Material Safety
United States Regulatory Commission
Washington, D. C. 80555



Dear Sir:

Following is the additional information needed for our license file. 30-17435-01) renewal request.

Item 1 - Actual sites of use. The gauge(s) will be used on the Navajo Agricultural Products Industry farm at Box 86, Farmington, New Mexico 87401. It will be used to monitor soil moisture in fields on the farm. The storage site of the gauge(s) will be discussed on Item 13.

Item 5 - Duties and Responsibilities of the Radiation Protection Officer. Our radiation Safety Officer will be Brian Bowman. He can be reached by phone at (303)325-3141. He will coordinate the safe use of the nuclear gauging device(s) as described in sub-items A through F on page 5 of "A Guide for Preparation of by product material applications for the use of sealed sources in portable and semi-portable gauging devices (1980)".

Item 6 - Materials - One moisture gauge is now in possession of NAPI. Possibly one more will be purchased. The gauge is a Campbell Pacific Nuclear 503 hydro probe with an Americium 241 source. The activity of the source is 50 mCi.

Item 8 and 9 - Training and experience of Radiation Protection Officer in radiation protection. The radiation protection officer will be Brian Bowman who is an employee of the Bureau of Reclamation. He has a certificate of completion of a course on Radiation Safety and Use of Soil Gauges provided by the manufacturer (Campbell Pacific Nuclear). All other people using the probes will have the same training. Brian Bowman has a M. S. degree in agricultural engineering from Colorado State University.

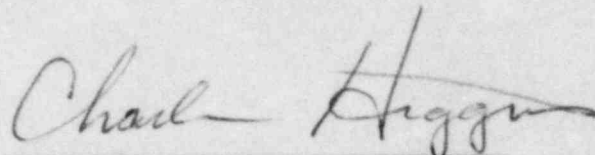
Item 13 - The gauge(s) Storage Area. The Gauge(s) will be stored at the B. O. R. Duty Station, 7 miles south of Farmington, New Mexico. It will be stored in an isolated, locked shed which is enclosed within a chain link fence. Appropriate signs are posted.

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INSPECTION AND SAFETY

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Item 14 - Leak Testing of Sealed Sources. Leak test kits will be obtained from the manufacturer. Analysis of results will also be done by the manufacturer. (SEE ATTACHED)

Item 15 - Describe disposal of gauge or device when use is discontinued. If the gauge were no longer used disposal would be return to the manufacturer (Campbell Pacific Nuclear).



Charles R. Higgins - Agronomist
Navajo Agricultural Products Industry

CRH:adh

Attachment
file

WRITTEN INSTRUCTIONS

(Copy of Procedures to all users of Gauge)

A. Safe Transportation.

Transport of the gauge in NAPI vehicles should be in a locked tool box in the back of the pickup. Transportation activities should be carried out in accordance with requirements of 10 CFR part 71 and Department of Transportation regulations.

B. Preventing unauthorized use and/or removal.

Never leave the gauge(s) unattended. If NAPI users leave the vehicle temporarily while in the field lock the tool box containing the gauge.

C. Preventing Unauthorized removal from designated storage area.

NAPI users will always lock the storage shed. Do not allow access of key to non-authorized users. See Item 13.

D. Emergency Procedures.

If the gauge is damaged, such as accidentally backing over it with a pickup, do not allow anyone else to approach the area. Do not try to clean up the problem yourself. Call Brian Bowman (303) 325-3141 or call Charles Higgins on the radio or have someone call (303) 327-5251. Phone number for the NRC and appropriate authorities are posted at the storage shed.

E. Maintenance on gauges involving removal of source holder, etc.

Only the Safety Officer is allowed to decide whether to repair or perform maintenance on the gauge.