



March 4, 2005

US NRC, REGION IV
Attn: Mr Rick Munoz
611 Ryan Plaza Dr Ste 400
Arlington, TX 76011-8064

MAR 08 2005

Re: Inspection Inquiries

Dear Mr. Munoz,

During your recent inspection of our Cody, Wyoming facility, you inquired about several items I was unable to put my hands on at the time. These items in question are enclosed herein. I hope you will find them in order, but if not, I would appreciate your feed - back.

Sincerely,

A handwritten signature in cursive script that reads "Robert Hope". The signature is written in black ink and has a long, sweeping underline.

Robert Hope
RSO

Superior Production Logging
Cody, Wyoming Facility
Annual Dose Limits – Members of Public



Calculations as per NU Reg 1556, Appendix P

North section of wall (outside radiation safe):

- Wall surface radiation = .18 mr/hr
- 1' from wall = .06 mr/hr
- 2' from wall = .04 (normal working distance)

As Per Table P2:

- Step 1: $.04 \times 1'^2 = .04$
- Step 2: $2'^2 = 4$
- Step 3: $.04 \times 4 = .16$
- Step 4: $.16 \times 40 \text{ hours} \times 52 \text{ weeks} = 31.2 \text{ mrems/ year}$

As Per Table P3:

- 7a. 2 hours/day
- 7b. 1 day/week
- 7c. 52 weeks
- 8. $2 \text{ hours/day} \times 1 \text{ day/week} \times 52 \text{ weeks} = 104 \text{ hours/year}$
- 9. $.16 \times 104 = 16.64 \text{ mrems/year}$

East section of wall (outside radiation safe):

- Wall surface radiation = .35 mr/hr
- 1' from wall = .09 mr/hr
- 2' from wall = .06 mr/hr
- 4' from wall = .05 mr/hr

As Per Table P2:

- Step 1: $.09 \times 112 = .09$
- Step 2: $1'^2 = 1$
- Step 3: $.09 \text{ divided by } 1 = .09 \text{ mr/hr}$
- Step 4: $.09 \times 40 \text{ hours/week} \times 52 \text{ weeks/year} = 187.20 \text{ mrems/year}$

As Per Table P3:

- 7a. 2 hours/day
- 7b. 2 days/week
- 7c. 52 weeks/year
- 8. $2 \text{ hours/day} \times 2 \text{ days/week} \times 52 \text{ weeks/year} = 208 \text{ hours/year}$
- 9. $.09 \times 208 = 18.72 \text{ mrems/year}$



NOTICE TO ALL LOGGING SUPERVISORS AND ASSISTANTS

Please be advised that the radioactive storage compartment on the logging trucks must be locked at all times, whether there is any R/A material on board or not. By being in the habit of keeping the compartment locked when not in use is a good way of not forgetting to do it when the truck is going to left unattended. It will always be locked, regardless.

Inside the radioactive storage compartment is the R/A materials transport container which also remains padlocked at all time when not in use. In addition, it is blocked and braced, however, the chain that attaches the container to the truck has a snap clip. This snap clip will be replaced by another padlock. This, in turn, will prevent a thief from stealing the box without having to cut the padlock, chain, or bolt.

These changes will undoubtedly reduce our company liability in any theft of materials. Next, these changes will also be helpful in reducing the risk of exposure to the public in the case of the compartment door coming open or the R/A container being carried off.

As a final note, the labeling on the R/A container must still be updated regularly and maintained in good order and be legible.

Robert Hope
RSO

CC: Lloyd Hawthorne

Superior Production Logging

From: "ISOTECH" <geocoly@geoco.wtxcoxmail.com>
To: <spl@wyoming.com>
Sent: Monday, February 21, 2005 9:01 AM
Subject: calibration source

bob hope
spl,inc.

sorry bob for the inconvenience, but my fax machine is down at this time.
our source that we use to calibrate all of your survey meters is a texas nuclear, model 5191/cs-137 source original activity was 1.0 curie in august of 1979. i hope this e-mail will suffice to please the nrc.

john ames/rso
isotech laboratory, inc.

copy to file

Superior Production Logging

From: "ISOTECH" <geocoly@geoco.wtxcoxmail.com>
To: <spl@wyoming.com>
Sent: Thursday, February 17, 2005 9:20 AM
Subject: CALIBRATION SOURCE

BOB HOPE
S.P.L., INC.

THE SOURCE WE USE TO CALIBRATE ALL OF YOUR SURVEY METERS IS A TEXAS NUCLEAR SOURCE, MODEL: 5191, ORIGINAL ACTIVITY WAS 1.0 CURIE. IF YOU HAVE ANY QUESTIONS, PLEASE GIVE ME A CALL.

BEST REGARDS,

JOHN AMES
R.S.O.
ISOTECH LABORATORY, INC.

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