



State of Alabama

DEPARTMENT OF PUBLIC HEALTH

State Office Building  
Montgomery, Alabama 36130



IRA L. MYERS, M.D.  
STATE HEALTH OFFICER

May 14, 1984

Mr. Donald A. Nussbaumer  
Assistant Director for State Agreements Programs  
Office of State Programs  
U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555

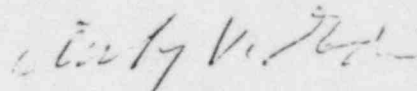
Dear Mr. Nussbaumer:

In accordance with your All Agreement States Memorandum, SA/ECA, May 4, 1984, the following comments are submitted concerning the proposed 10 CFR 39:

- a. The title should include the words "and Subsurface Tracer Studies" since the radiation safety requirements for such studies are included in the text although no licensing requirements for tracer studies are included.
- b. Licensing requirements for Subsurface Tracer Studies should be included as 10 CFR 39.12. The fact that NRC took seven years to renew the Teledyne Isotopes license is justification for inclusion of the requirements resulting from that exercise.
- c. 10 CFR 39.2  
The definition of "Subsurface Tracer Study" should not be restricted to releases in a single well. Many studies conducted by such licensees as Teledyne Isotopes involve releases in many wells. If the single well definition is retained, the safety requirements will not be applicable to multiple release studies.
- d. 10 CFR 39.13  
The requirements for training of logging supervisors and assistants and an in-house inspection system should be radiation safety requirements and not a condition for approving an application. Such a change would make the requirement enforceable even though the license writer fails to include the requirement in the license.
- e. 10 CFR 39.33  
A survey instrument should be specifically required at each temporary job site. It is impossible to make radiation surveys at the temporary job site if the instrument is back at the field station. This section requires an instrument at the field station but not at the temporary job site. The field station and the temporary job site may be 1000 miles apart.

- f. 10 CFR 39.33b.  
Item (2) should read "at two or more widely separated (at least half scale) points, other than zero, on each scale". The proposed words would allow calibration at any two points on each scale which can be no better than single point calibration.
- g. 10 CFR 39.65(a)  
This section will require that most logging supervisors and assistants have both gamma and neutron dosimetry since most operations involve tools with sources emitting both radiations. Your supporting cost analysis shows no additional cost attributable to this requirement but maintains that it is already required by 10 CFR 20. Such is not the case, 10 CFR 20.202 requires monitoring only for those persons likely to receive 25 percent of the allowable absorbed dose. Since this new section requires personnel monitoring without regard to the likely absorbed dose, it will generate an additional cost to the licensee and should not be advertised as free.
- h. 10 CFR 39.65(b)  
"Appropriate bioassay services" is too vague to be enforced.
- i. 10 CFR 39.71  
This section should include security requirements for sub-surface tracer studies.
- j. 10 CFR 39.77(c)(5)  
In the case of slant drilling, depth of source does not accurately locate the lost source. The entry should be "location of the source relative to the entry hole".

Sincerely,



Aubrey V. Godwin, Director  
Bureau of Radiological Health  
Environmental & Facility Standards  
Administration

AVG:ARP:psc

cc: Mr. R. Woodruff  
Agreement States