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**STATE OF OHIO**  
**Ohio Department of Health**  
**Bureau of Radiation of Protection**  
**Dr. J. Nick Baird, M.D., Director of Health**

Re: SP-99-014

Date: 12-1-99	From: Roger Suppes, Chief
To: Tom O'Brien	Agency/Company: ODH
Company: State Programs - NRC	Phone Number: 614-644-7860
Fax Number: 301-415-3502	No. of Pages (Including this Cover): 3
Phone Number: 301-415-2308	

COMMENTS: \_\_\_\_\_  
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35 E. CHESTNUT ST. \* 7<sup>TH</sup> FLOOR \* COLUMBUS, OH 43266 \* 614-644-2727 \* FAX 614-466-0381

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# OHIO DEPARTMENT OF HEALTH

246 North High Street  
Post Office Box 118  
Columbus, Ohio 43266-0118  
Telephone: (614) 466-3543



Bob Taft  
Governor

J. Nick Baird, M.D.  
Director of Health

November 15, 1999

Frederick C. Combs, Deputy Director  
Office of State Programs  
USNRC  
One White Flint North - 3<sup>rd</sup> Floor  
11555 Rockville Pike  
Rockville, Maryland 20852

Dear Mr. Combs:

Please find enclosed Ohio's response to your information request of November 2, 1999. The information request regarded Ohio practices and approaches regarding release of solid materials contaminated with radionuclides.

If you should have any questions regarding this information, please contact me at (614) 644-2727.

Sincerely,

A handwritten signature in cursive script that reads "Roger L. Suppes".

Roger L. Suppes, Chief  
Bureau of Radiation Protection

Enclosure

RLS/me

cc: Ruth Vandegrift  
Marcia Howard  
Robert Owen

PDR STPRG

State of Ohio Department of Health /Bureau of Radiation Protection  
Response to USNRC  
Information Request on Release of Solid Materials

1. Question: How were your State's radiological criteria derived and to what type of materials (e.g., medical, pipe scale) do they apply? If Regulatory Guide 1.86 was used as a basis please indicate so, if another technical basis was used, please provide that basis.

Response: The state of Ohio's radiological criteria was derived from the rules and guidance provided by the USNRC. For surficial radiological contamination, Regulatory Guide 1.86 is used by licensees to demonstrate compliance for unrestricted release criteria. Regulatory Guide 1.86 is not used for the unrestricted release criteria for volumetric or solid material contamination.

2. Question: How are your State's radiological criteria applied (e.g., through guidance, licensing actions, regulations)?

Response: The state of Ohio applies radiological criteria through guidance documents and licensing actions.

3. Question: What surveying/monitoring methodologies are used? If NUREG/CR-5839 or MARSSIM are used, please indicate so. If a State developed or another method is used, please provide that method.

Response: The state of Ohio uses NUREG/CR-5849 in those circumstances where a facility clean up is being conducted via an USNRC approved Decommissioning Plan prior to Ohio becoming an Agreement State. All other sites will demonstrate compliance via the MARSSIM methodology.

4. Question: What type of instruments (e.g., manual versus automated, hand-held versus stationary, barrel counters versus conveyor systems) and what sensitivity (i.e., lower limit of detection) values are used as selection criteria for instruments used in demonstrating compliance with the radiological criteria provided in response to Question 1?

Response: The types of instruments used are generally handheld portable instruments. The exceptions are two large floor monitors using gas proportional detectors. The fixed equipment used for sample analyses is contracted through an associated state of Ohio laboratory. Instruments are calibrated in accordance with manufacturer specifications.

5. Question: If your release criterion is zero, how do you have your licensees determine that a solid to be released is not radioactive or meets the zero criterion?

Response: The state of Ohio has not established a criteria for unrestricted release of solid materials that are uniformly radiologically contaminated through out the object.

6. Question: If any state licensees currently have volumetric release authorization, please identify the licensees and whether the quantities released are tracked, summarize the scope of these authorized activities, and provide the criteria used in granting the authorization.

Response: The state of Ohio does not currently have licensees that have volumetric release authorization.