

SCIENTIFIC INFORMATION STATEMENT (CONTINUED)

3. Continued from page 1:

By expressing the standard in terms of exposure measurements, the proposed final rule removes the necessity of a dose conversion factor and use of the Off-site Dose Calculation Manual as described in the ORAU report.

In addition, for purposes of application of the rule to all regulated sources of radiation, the rule adopts definitions of key terms to be consistent with compatible federal regulatory programs and also requires the Department to make use of the best scientific reports and publications from a number of governmental and scientific organizations.

SCIENTIFIC INFORMATION STATEMENT

Note: In completing the Scientific Information Statement, an agency shall provide a brief summary of the scientific information including reference to any scientific studies upon which the proposed rule is based, for the purpose of validity. Where this form is insufficient for your purposes, please use additional sheets.

Please complete the following:

1. Title or subject of rule:

Radiological Health

2: Agency:

Department of Health, Agency of Human Services

3. A brief explanation of scientific information:

For purposes of the application of the rule to the Vermont Yankee Nuclear Power Station (VYNPS), the proposed amendments are based in part on recommendations in a 2007 report by Oak Ridge Associated Universities (ORAU) and the other studies and science described and referenced therein. The independent study was conducted at the request of the Department of Health in 2005-2006. The study evaluated the accuracy of the methodology employed by VYNPS to demonstrate compliance with the regulatory limits for direct gamma radiation emanations from activities at the plant. The study also evaluated the independent methodology employed by the Department of Health to verify the accuracy of the VYNPS reported compliance findings. The ORAU study evaluated and recommended a specific dose conversion factor of 0.60 to be used to determine compliance with the direct gamma radiation limit established by the rule in effect at the time of the study. See page 2.

4. Cite source of Scientific Information and provide instruction on how to obtain this material from the agency:

Oak Ridge Associated Universities Report: An Evaluation of Direct Gamma Dose at the Site Boundary of the Vermont Yankee Nuclear Power Station is available on the Department's website at: <http://healthvermont.gov/enviro/rad/yankee/013107Site%20BoundaryEvaluation.pdf>. Reports and other publications are available from governmental and scientific organizations directly from those entities. The Department will provide web addresses and other contact information on request.