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AGREEMENT STATES, VERMONT, WYOMING
NON-AGREEMENT STATES

PUBLICATION OF NUREG/CR-7199, "RADIONUCLIDE RELEASE FROM SLAG AND
CONCRETE WASTE MATERIALS – PART 3: TESTING PROTOCOL" (STC-16-006)

Purpose: To inform the Agreement States and Non-Agreement States of the availability of NUREG/CR-7199, "Radionuclide Release from Slag and Concrete Waste Materials – Part 3: Testing Protocol."

Background: In December 2015, the Office of Nuclear Regulatory Research (RES) Division of Risk Analysis issued NUREG/CR-7199, "Radionuclide Release from Slag and Concrete Waste Materials – Part 3: Testing Protocol." The report was prepared to document work performed by Argonne National Laboratory. The primary objective of the analyses described in the report was to recommend a laboratory testing protocol that can be used to support and inform assessments of surface waste disposal sites.

Discussion: The protocol of laboratory tests presented provides key information regarding the release behavior of contaminants (radionuclides) from piles of slag and concrete waste materials in surface disposal sites. It is expected that the data from these tests can be used in computer simulations to estimate long-term weathering behavior and contaminant release. The recommended test methods were selected because (1) the test results highlight a process, or combination of processes, related to the contaminant release rates (source terms) and retardation of contaminant transport, (2) the methods have been applied to a wide range of materials similar to the slag and concretes of interest, and (3) the methods are easy and economical to perform.

NUREG/CR-7199 can be found on the NRC's public Web site at:
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/contract/cr7199/>

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