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NOTE TO FILE: Project File: PROJ0734

FROM: Harry Felsher, Sr. Project Manager */RA/*
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Office of Nuclear Material Safety and Safeguards

SUBJECT: TABLE CLARIFYING THE INFORMATION FOR A PUBLICLY
AVAILABLE U.S. DEPARTMENT OF ENERGY WASTE INCIDENTAL TO
REPROCESSING DOCUMENT AND ITS REFERENCES

The purpose of this Note to File is to provide a table clarifying the information in the U.S. Nuclear Regulatory Commission's (NRC's) Agencywide Documents Access and Management System (ADAMS) for a publicly available U.S. Department of Energy (DOE) Waste Incidental to Reprocessing (WIR) document and its references.

After the NRC completed the July 2018 WIR Onsite Observation Visit to the Saltstone Disposal Facility (SDF) at the DOE Savannah River Site, the DOE provided a CD to myself (as the Lead NRC Project Manager for WIR activities related to the SDF at the DOE SRS) with the publicly available DOE document (SRRA107772-000009, Rev. A, "Predicting Long-Term Percolation from the SDF Closure Cap," April 2018) and its approximately 50 references. I provided the CD to the NRC's ADAMS Group with the request (and appropriate NRC Form) to add the DOE document and its references into ADAMS as a Package. The ADAMS Group completed that request and the ADAMS Package No. is ML18215A269.

However, when I reviewed the Package in ADAMS, I discovered that the ADAMS Group had made several mistakes, such as: (1) changing the title of the ADAMS Package from what I had provided; (2) duplicating the DOE document and some of the references that were already in ADAMS, and (3) including some incorrect titles, dates, and other information for some of the references.

To assist the future NRC use of the DOE document and its references, please see below for a table containing the ADAMS numbers and the correct information for the DOE document and its references.

TABLE CLARIFYING INFORMATION

ADAMS NO.	DESCRIPTION
ML18170A244	U.S. Department of Energy, SRRA107772-000009, Rev. A, "Predicting Long-Term Percolation from the SDF Closure Cap," April 2018
ML18215A331	"Leakage Through Liners Constructed with Geomembranes – Part I. Geomembrane Liners," <i>Journal of Geotextiles and Geomembranes</i> , Vol. 8, 1989
ML18215A332	"Leakage Through Liners Constructed with Geomembranes – Part II. Composite Liners," <i>Journal of Geotextiles and Geomembranes</i> , Vol. 8, 1989
ML18215A333	"Liquid Flow Equations for Drainage Systems Composed of Two Layers Including a Geocomposite," <i>Journal of Geosynthetics International</i> , Vol. 11, 2004
ML18215A280	"PostConstruction Changes in the Hydraulic Properties of Water Balance Cover Soils," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 133, 2007
ML18215A281	"Field Test of Potential RCRA-Equivalent Covers at the Rocky Mountain Arsenal, Colorado," <i>Proceedings of the SWANA 4th Annual Landfill Symposium</i> , 1999
ML18215A282	"Guidelines for Predicting Crop Water Requirements," <i>Food and Agriculture Organization of the United Nations</i> , 1975
ML18215A283	"Hydrologic Modeling of Protective Barriers: Comparison of Field Data and Simulation Results," <i>Soil Science Society of America Journal</i> , Vol. 56, 1992
ML18215A284	"Hydrologic Model Tests for Landfill Covers Using Field Data," <i>Proceedings of Landfill Capping in the Semi-Arid West: Problems, Perspectives, and Solutions</i> , 1997
ML18215A285	"Intercode Comparisons for Simulating Water Balance of Surficial Sediments in Semiarid Regions," <i>Water Resources Research</i> , Vol. 38, 2002
ML18215A286	"Hydraulic Conductivity and Cation Exchange in Non-Prehydrated and Prehydrated Bentonite Permeated with Weak Inorganic Salt Solutions," <i>Clays and Clay Minerals</i> , Vol. 52, 2004
ML18215A287	"Numerical Modeling in Geoenvironmental Practice," <i>Geo-Strata</i> , July-August 2006
ML18215A288	"Waste Containment: Strategies and Performance," <i>Journal of Australian Geomechanics</i> , Vol. 36, 2001
ML18215A289	"Field Hydrology and Model Predictions for Final Covers in the Alternative Cover Assessment Program – 2002," September 2002
ML18215A290	"Field Performance of Compacted Clay Landfill Final Cover at Humid Site," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 132, 2006
ML18215A291	"Field Performance of Three Compacted Clay Landfill Covers," <i>Vadose Zone Journal</i> , 2006
ML18215A292	"Field Hydrology of Landfill Final Covers with Composite Barrier Layers," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 139, 2012
ML18215A293	"Field Water Balance of Landfill Final Covers," <i>Journal of Environmental Quality</i> , Vol. 33, 2004
ML18215A294	"Field Hydrology of Water Balance Covers for Waste Containment," <i>Journal of Environmental Quality</i> , 2014

ADAMS NO.	DESCRIPTION
ML18215A295	"Evaluation of Bouwer-Rice Large-Particle Correction Procedure for Soil Water Characteristic Curves," <i>Geotechnical Testing Journal</i> , Vol. 36, 2013
ML18215A296	"Using Surrogate Meteorological Data to Predict the Hydrology of Water Balance Cover," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , 2015
ML18215A297	"Predictions in Geoenvironmental Engineering: Recommendations for Reliable Predictive Modeling," <i>2010 GeoFlorida Conference</i> , 2010
ML18215A298	"Designing Water Balance Covers for Sustainable Waste Containment: Transitioning State-of-the-Art to State-of-the-Practice," <i>2012 GeoCongress</i> , 2012
ML18215A299	"Properties of Geosynthetics Exhumed from a Final Cover at a Solid Waste Landfill," <i>Journal of Geotextiles and Geomembranes</i> , Vol. 28, 2010
ML12005A110	NUREG/CR-7028, Vol. 1, "Engineered Covers for Waste Containment: Changes in Engineering Properties and Implications for Long-Term Performance Assessment," December 2011
ML18215A301	"Field Hydrology of the Simple 1 and GCLL Final Cover Test Sections for the East Overburden Pit and the North Pit – Blackfoot Bridge Mine: Annual Report for Calendar Year 2016," July 2017
ML18215A302	U.S. Department of Energy, PNL-8840, "Natural Analog Study of Engineered Protective Barriers at the Hanford Site," September 1993
ML18215A303	"Field Data and Water-Balance Predictions for a Monolithic Cover in a Semiarid Climate," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 135, 2009
ML18215A304	"Climate Change Impacts in the United States: The Third National Climate Assessment, Chapter 17, Southeast and the Caribbean," 2014
ML18215A305	"Crop Evapotranspiration-Guidelines for Computing Crop Water Requirements: Chapter 2 – FAO Penman-Monteith Equation," <i>Food and Agricultural Organization of the United Nations</i> , 1998
ML18215A306	U.S. Department of Energy, PNNL-13249, "UNSAT-H Version 3.0: Unsaturated Soil Water and Heat Flow Model – Theory, User Manual, and Examples," June 2000
ML18215A307	U.S. Department of Energy, PNL-5604, "Model Assessment of Protective Barrier Designs," November 1985
ML18215A308	"Predicting Leakage Through Composite Landfill Liners," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 127, 2001
ML18215A310	U.S. Department of Energy, PNNL-14143, "The Hanford Site 1000-Year Cap Design Test," December 2002
ML18215A311	U.S. Department of Energy, "Appendix A – Surface Barrier Degradation," 2004 (<i>there are no indications of what this is an appendix to</i>)
ML18215A313	"Yoshinogari – A Yayoi Settlement in Northern Kyushu," <i>Monumenta Nipponica</i> , Vol. 46, 1991
ML18215A314	U.S. Department of Energy, WSRC-STI-2008-00244, Rev. 0, "Saltstone Disposal Facility Closure Cap Concept and Infiltration Estimates," May 2008
ML18215A315	"Field Data from a Capillary Barrier and Model Predictions with UNSAT-H," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 125, 1999
ML18215A316	"LAI Estimation of Natural Pine Forest using a Non-Standard Sampling Technique," <i>Agricultural and Forest Meteorology</i> , Vol. 101, 2000

ADAMS NO.	DESCRIPTION
ML18215A317	"Comparison of Field Data and Water-Balance Predictions for a Capillary Barrier Cover," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 134, 2008
ML18215A318	"Geotechnical Characteristics and Construction Methods of Yoshinogari Fun-Kyu Tomb in Japan and Tu-Dun Tombs in China," <i>Journal of Geotechnical Engineering</i> , No. 736, 2003
ML18215A319	"Hydraulic Conductivity of Geosynthetic Clay Liners Exhumed from Landfill Final Covers with Composite Barriers," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 137, 2011
ML18215A320	"Properties of Barrier Components in a Composite Cover after 14 Years of Service and Differential Settlement," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 143, 2017
ML18215A322	U.S. Environmental Protection Agency, EPA/600/R-94/268b, "The Hydrologic Evaluation of Landfill Performance (HELP) Model: Engineering Documentation for Version 3," September 1994
ML18215A325	"Radiation Dose and Antioxidant Depletion in a HDPE Geomembranes," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 144, 2018
ML18215A326	"Hydraulic Conductivity of Geosynthetic Clay Liners to Low-Level Radioactive Waste Leachate," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 142, 2016
ML18215A327	"Antioxidant Depletion and Service Life Prediction for HDPE Geomembranes Exposed to Low-Level Radioactive Waste Leachate," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol. 143, 2017
ML18215A328	"Climate Change Impacts in the United States: The Third National Climate Assessment, Chapter 2, Our Changing Climate," 2014
ML18215A329	"Water Balance Modeling of Earthen Final Covers," <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , Vol, 123, 1997
ML18215A330	"Leaf Area Index Estimation of Bamboo Forest in Fujian Province based on IRS P6 LISS 3 Imagery," <i>International Journal of Remote Sensing</i> , Vol. 32, 2011

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