

THE EFFECT OF ACTINIDES ON THE MICROSTRUCTURAL DEVELOPMENT IN
A METALLIC HIGH-LEVEL NUCLEAR WASTE FORM¹

by

RECEIVED
JAN 18 2000
OSTI

Dennis D. Keiser, Jr.^a, Wharton Sinkler^a, Daniel P. Abraham^b, James W. Richardson, Jr.^b,
and Sean M. McDevitt^b

^aArgonne National Laboratory-West, P. O. Box 2528, Idaho Falls, ID 83403-2528

^bArgonne National Laboratory, 9700 S. Cass Ave., Argonne, IL 60439-4803

The submitted manuscript has been created by the University of Chicago as Operator of Argonne National Laboratory ("Argonne") under Contract No. W-31-109-ENG-38 with the U.S. Department of Energy. The U.S. Government retains for itself, and others acting in its behalf, a paid-up, nonexclusive, irrevocable worldwide license in said article to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government.

Paper to be Published in *Rare Earths and Actinides: Science, Technology and Applications IV* and to be Presented at the TMS Annual Meeting, Nashville, TN, March 12-16, 2000.

¹ Work supported by the U.S. Department of Energy, Office of Nuclear Energy, Science, and Technology, under contract W-31-109-Eng-38.