

HLWYM HEmails

From: Osvaldo Pensado
Sent: Friday, June 08, 2007 12:00 PM
To: Wesley Patrick
Cc: Xihua He; Yi-Ming Pan
Subject: suggested paragraph

This is our (Yi-Ming, Xihua, and me) suggested paragraph

Preliminary waste package models developed by DOE indicate that the Alloy 22 outer container is susceptible to localized corrosion predominantly during the first few thousands of years, when waste package temperatures are high and concentrated solutions could develop. At times beyond 10,000 years, when waste package temperatures are lower and the relative humidity within the emplacement drift is high, which leads to the formation of less concentrated solutions, the waste package is less susceptible to localized corrosion. Because general corrosion appears to be the dominant mode of waste package failure after 10,000 years, precise modeling of transient changes from drier to wetter conditions is unlikely to have a pronounced effect on peak expected dose.

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