

United States
Nuclear Waste Technical Review Board

Transcript

Spring, 2024 Board Meeting

Wednesday
May 22, 2024

PUBLIC MEETING
In-Person and Virtual

Knoxville, Tennessee

NWTRB BOARD MEMBERS IN-PERSON

Nathan Siu, Chair
Ronald Ballinger

Tissa Illangasekare
Scott Tyler, Deputy Chair
Brian Woods

NWTRB BOARD MEMBERS VIRTUAL

Allen Croff

NWTRB EXECUTIVE STAFF MEMBERS IN-PERSON

Dan Ogg
Neysa Slater-Chandler

NWTRB PROFESSIONAL STAFF MEMBERS IN-PERSON

Hundal Jung
Yoonjo Lee
Bret Leslie
Chandrika Manepally

NWTRB ADMINISTRATION STAFF MEMBERS IN-PERSON

Davonya Barnes
Jayson Bright
Kimberly Brown

500 functions, isolation for example and slow transport of solutes
501 and radionuclides out our main barrier is the canister.

502

503 So, if you look at the safety concept it has two colors. The
504 figure on the right has two colors and two types of pillars. We
505 have the blue pillars. The blue vertical ones they really talk
506 about the performance of the EBS. The right hand side is proven
507 technical quality of the EBS. That means that we have to use
508 materials that are well characterized and their behavior can be
509 predicted well enough in the future so that, we go to the left
510 vertical column, so that we can prove that we provide, the other
511 EBS provide favorable conditions to the canister. So we want to
512 make sure that the canisters stay alive, stay intact for as long
513 as possible as the canister provides containment. So that is our
514 main safety. That is the safety function for the canister.

515

516 So, the three yellowish pillars in the middle they are there
517 because in case we lose containment, we lose the canister
518 breaches in fact, the radionuclides are released slowly from our
519 spent nuclear fuel. I think you will talk about it more today.
520 The ceramic UO_2 is very, very slowly, releases very slowly
521 radionuclides. But then we have also the buffer, the clay buffer

