

What are the outcomes of copper corrosion programs?

Specific outcomes of copper corrosion programs are discussed, and the outlook of future work is provided. In general, trapped oxygen in a DGR will be low, and mass-balance calculations can bound upper limits on oxic corrosion. The NWMO has performed such calculations for historical designs, [3] and more recently for the updated concept. [4]

What causes long-term copper corrosion?

Slow diffusion of trace sulfide is considered to be the most likely cause of long-term copper corrosion via general corrosion rather than pitting.

What is a conservative bounding anoxic copper corrosion rate?

By presuming that all hydrogen released is from corrosion, as per reactions (1)- (3), a conservative bounding anoxic copper corrosion rate is determined using a highly sensitive solid state ceramic hydrogen probe with a detection limit as low as 0.1 nm/a, or based on more recent publications, 0.01 nm/a. [27]

What topics are included in a copper corrosion research package?

Work packages included a number of copper corrosion topics: specifically, oxic, radiolytic, nonuniform and anoxic corrosion, and corrosion of copper coating materials versus wrought copper. Other companion corrosion research has investigated corrosion of the underlying steel through defects in copper coatings.

What is the value of non-uniform corrosion?

Thus, the NWMO has retained the previously estimated value of 100 $\mu\text{m/a}$ for nonuniform corrosion, as this value includes the gradual roughening that the surface goes through during corrosion.

What is materials and corrosion?

Materials and Corrosion is a leading journal at the interface of materials science, metallurgy, and metallurgical engineering, with a focus on corrosion science.

Corrosion is a widespread concern that extends far beyond maritime settings, significantly affecting the longevity and efficiency of power generation equipment. The financial ...

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Research within the PTP includes several programs to evaluate the possible extent of damage that may be caused by various copper corrosion mechanisms: oxidic-, radiolytic-, ...

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This paper summarizes the status and future direction of the NWMO corrosion program and provides insight into the total corrosion expected within the deep geological ...

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