HLWYM HEmails

From: Gustavo Cragnolino [gcragno@cnwra.swri.edu]
Sent: Tuesday, June 01, 2004 12:14 PM
To: Xihua He
Cc: 'Darrell Dunn'; 'Vijay Jain'
Subject: RE: Alloy 22 localized corrosion propagation rate

This work project is a good idea but I prefer to have the discussion tomorrow at 1:30 p.m. or sometime in the afternoon. I need to finish today my input for the IIRSR.

-----Original Message-----
From: Xihua He [mailto:xhe@cnwra.swri.edu]
Sent: Tuesday, June 01, 2004 10:37 AM
To: Darrell Dunn; Vijay Jain; Gustavo Cragnolino
Subject:

Dear colleagues,

I am going to do some work on the propagation behavior of C-22. The following is a brief description about what I want to do:

In the TPA code Version 3.2, the localized corrosion propagation rate for Ni-Cr-Mo alloys was assumed to be a constant. This is a very conservative assumption. More work needs to be done to understand the details. To gain some knowledge in the propagation behavior for C-22, I plan to use two methods to measure the propagation rate. One method I would like to try is called "lead-in-pencil" single pit method. Darrell used this method before to measure the propagation rate for 316L stainless steel. In this method the specimen can be sealed in resin or plastic tubing. The penetration rate can be calculated by charge and by weight change. The other method is to use crevice specimen. We can design a single-crevice assembly to study the localized corrosion. Crevice corrosion can be initiated by applying potential or by adding oxidizer to increase the potential. The propagation rate can also be calculated from charge. We might get different penetration rates from two methods, but they will complement each other to help us understand the propagation behavior.

May I set up a time to have a discussion with you late this afternoon or tomorrow? Any thought about this from you will be greatly helpful.

Thank you.

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Subject: RE: Alloy 22 localized corrosion propagation rate
Sent Date: 6/1/2004 12:14:23 PM
Received Date: 6/1/2004 12:10:50 PM
From: Gustavo Cragnolino

Created By: gcragno@cnwra.swri.edu

Recipients:
"'Darrell Dunn'" <ddunn@cnwra.swri.edu>
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MESSAGE	1973	6/1/2004 12:10:50 PM

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