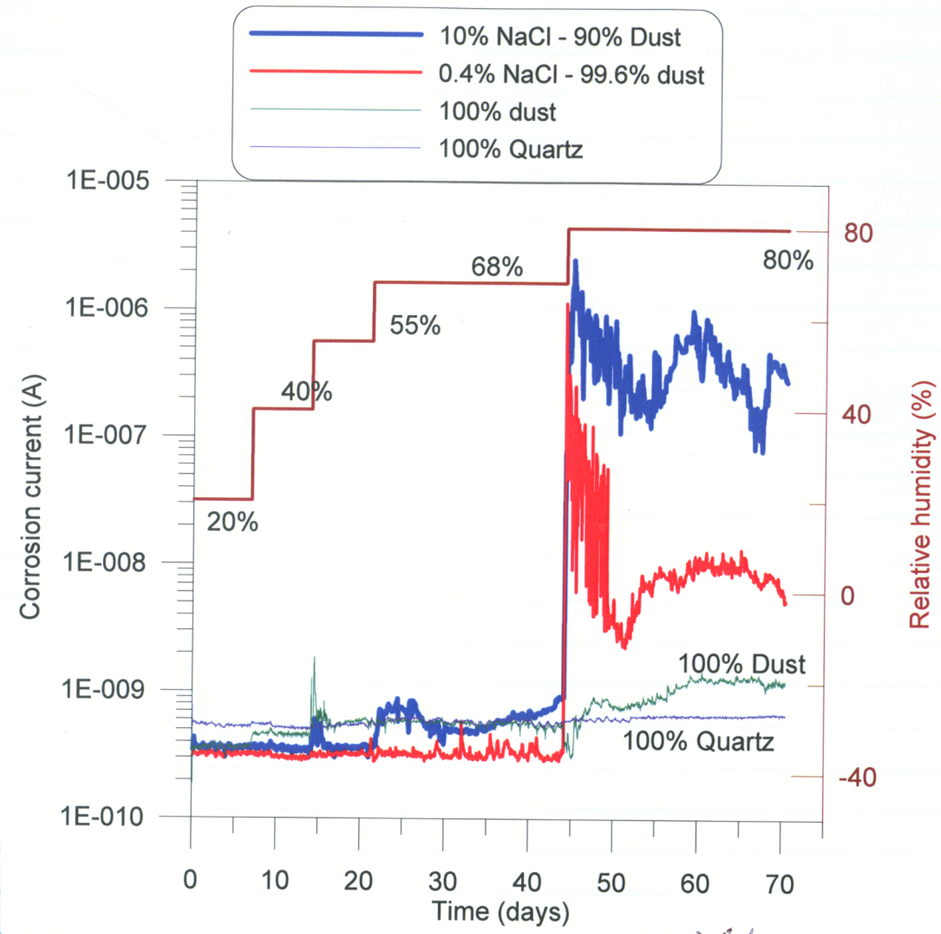
12/27/2007 11:05AM	75C	72.2C	83.00%	78.80%	79.74%	15380
12/28/2007 8:22AM	75C	72.1C	83.00%	78.60%	79.70%	15683
12/31/2007 8:37AM	75C	72.0C	83.00%	78.50%	79.70%	16710
1/2/2008 10:09AM	75C	72.1c	83.00%	78.50%	73.62%	17416
1/3/2008 9:07AM	75C	71.7C	83.00%	78.30%	79.73%	17743
1/4/2008	75C	72.4C	83.00%	78.60%	79.51%	18089
1/7/2008 8:12AM	75C	72.6C	83.00%	78.90%	79.56%	19096
1/8/2008 7:47AM	75C	72.7C	83.00%	78.90%	79.56%	19431
1/9/2008 8:20AM	75C	72.5C	83.00%	78.90%	79.54%	19780
1/10/2008 8:36AM	75C	72.5C	83.00%	78.90%	79.74%	20126
1/11/2008 7:48AM	75C	72.4C	83.00%	78.80%	79.83%	20456
1/14/2008 8:27AM	75C	72.6C	83.00%	78.90%	79.87%	21489
1/15/2008 8:25AM	75C	72.0C	83.00%	78.90%	79.72%	21831
1/16/2008 8:41AM	75C	72.6C	83.00%	78.90%	80.12%	22176
1/17/2008 8:31AM	75C	72.3C	83.00%	78.80%	79.31%	22515
1/18/2008 8:10AM	75C	72.4C	83.00%	79.00%	80.00%	22851
1/21/2008 7:27AM	75C	72.4C	83.00%	78.90%	79.86%	23866
1/22/2008 8:08AM	75C	72.5C	83.00%	78.90%	79.81%	24217
	Turn off chamber					

Xihua He 1/25/08

Probes after test

Xihua He 2/15/08

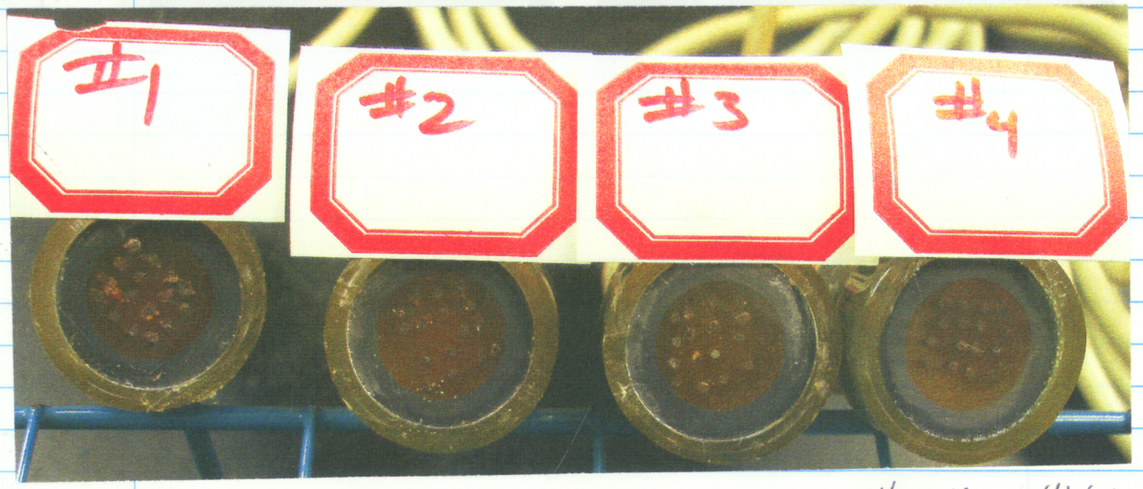


Xihua He 1/25/08

Probes after test:

Xi He 2/15/08

Probes after test



X. Hua He 2/15/08

Test starts on ~~2~~ 2/20/08
X.H 4/28/08

Observe the effect of quartz size on the retention effect of quartz

Data files:
CSQUARTZ00
CSQUARTZ01
CSQUARTZ02
CSQUARTZ03
CSQUARTZ04
CSQUARTZ05
CSQUARTZ06
CSQUARTZ07
CSQUARTZ08
CSQUARTZ09
CSQUARTZ10

~~balance~~
X.H 4/17/08
Balance to weigh sample.
Sartorius
Cal: 4/13/07 Due: 5/13/08
AN: 008780 SN: 12809099

1. Grind and sieve the quartz samples in the corrosion lab into various sizes:

coarser than 100 mesh, 100 – 200 mesh, 200 – 325 mesh, finer than 325 mesh

2. Set up test with four carbon steel probes in the ESPEC humidity chamber connecting to the MAS system
   - Probe #1: 0.1 g NaCl + 9.9 g quartz (coarser than 100 mesh) 0.101 g NaCl
   - Probe #2: 0.1 g NaCl + 9.9 g quartz (100 – 200 mesh)
   - Probe #3: 0.1 g NaCl + 9.9 g quartz (200 – 325 mesh)
   - Probe #4: 0.1 g NaCl + 9.9 g quartz (finer than 325 mesh)
   - Temperature: 70 °C
   - Humidities: 20% to 40%, 55%, 68%, 80%

NaCl #066010

VAISALA probe for humidity:
Cal: 4/20/07 Due: 4/20/08
AN: 010699 SN: 20730045

Fluke thermometer
Cal: 4/3/07 Due: 4/3/08 SN: 90810070
X.H

Probe #1
0.101 g NaCl + 9.902 g Quartz
Probe #2
0.103 g NaCl + 9.900 g Quartz
Probe #3
0.102 g NaCl + 9.903 g Quartz
Probe #4 0.104 g NaCl + 9.901 g Quartz

re-calibration is pending completion of the experiment.
X.H 4/17/08