

John Reynoso

From: (b)(6)
Sent: Wednesday, August 20, 2008 7:10 AM
To: John Reynoso
Subject: Fw: 3G003 Cracked Rotor Bar 0200 status
Attachments: ATT00001; ATT00002

--- Forwarded by (b)(6) SONGS/SCE/EIX on 08/20/2008 07:09 AM ---
(b)(6) To (b)(6) AN
08/20/2008 06:59 AM cc
Subject Fw: 3G003 Cracked Rotor Bar 0200 status

(b)(6)
San Onofre Nuclear Generating Station
Systems Engineering
(b)(6)

--- Forwarded by (b)(6) SONGS/SCE/EIX on 08/20/2008 06:59 AM ---
(b)(6) SONGS/SCE/EIX To (b)(6)
08/20/2008 02:31 AM cc

Subject Re: 3G003 Cracked Rotor Bar 0200 status [link](#)

- Notification 200106606 written to document crack in rotor bar.
- Vendor rep (b)(6) of ESI notified to supply personnel to change out generator with spare.
- Maintenance planning notified to support inspection of both Unit 2 machines on 8/20. SRGF made notification.
- Operations in process of clearing U2 train A DG for work by 0600/8/20/08 to be followed immediately by an inspection of the U2 train B machine.
- (b)(6) SSID sent home about midnight. Will be on call for inspections of U2 machines.
- No means of inspecting the U3 A train machine in time(two hours) to verify condition does not exist in this machine to avoid the need to shut down the unit. Twenty four hour clock runs until 2100 08/20/08. Shift manager working issue.

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(b)(6) /SONGS/SCE/EIX

08/20/2008 12:56 AM

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To

cc

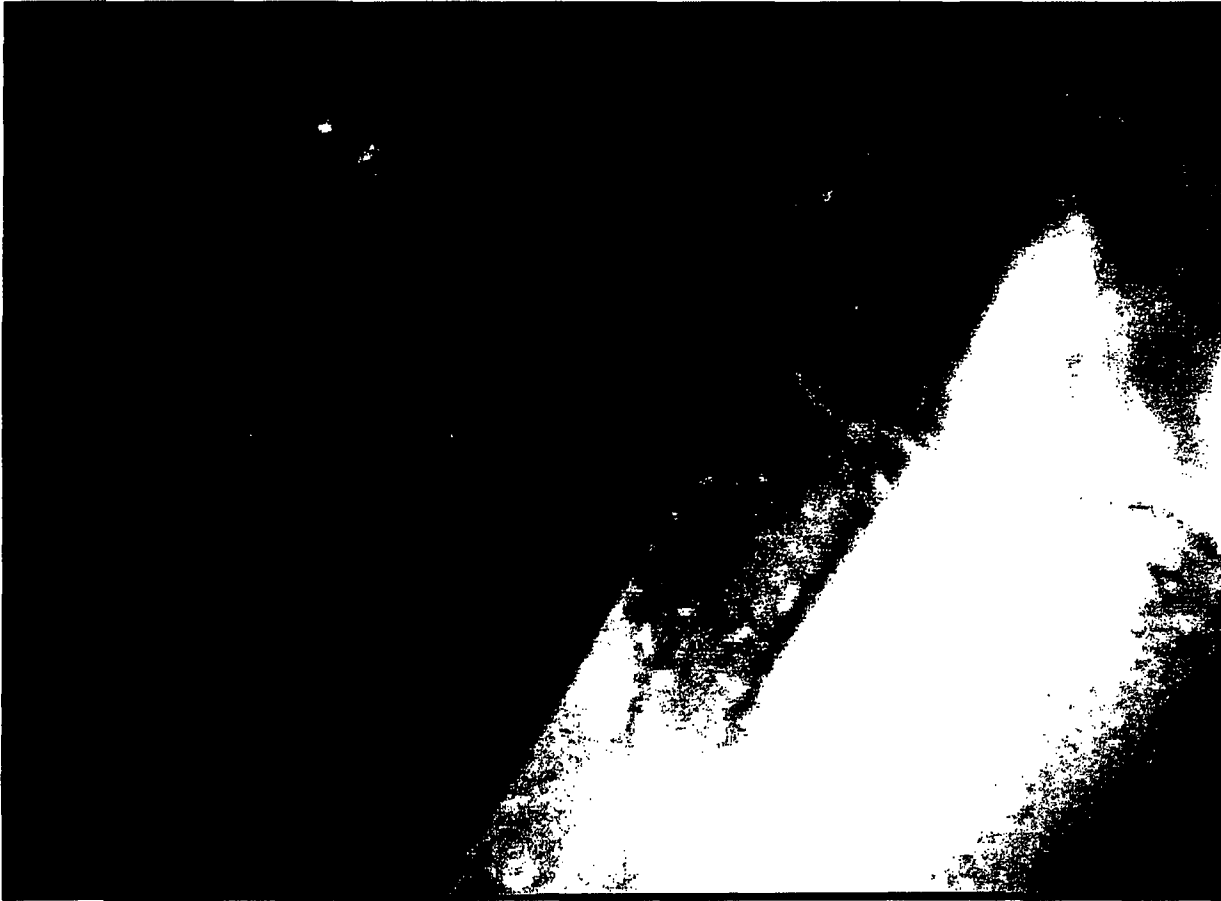
Subject 3G003 Cracked Rotor Bar [Link](#)

To All,

3G003 inspection was done today by (b)(6) II (SSID) using a boroscope. During the visual inspection it was observed that there was a crack of the shorting ring of the damper winding on the rotor. This circuit carries the circulating current during the start up or change in loading of the EDG. The crack was observed to be adjacent to the weld overlap of the copper, and dislocated approximately 75% of the estimated 1/4" thickness of the material. It is not recommended to continue with the operation of the unit with this as found condition. The damper winding could not be considered reliable for service based on this finding. It is recommended that the generator in 3G003 be replaced.



Another indication was found in an adjacent location on the next pole which is just starting to separate, and not open like the first finding.



The other 3 EDG's have been inspected visually for general condition about 1 to 2 years ago. Similar rotor bar crack has not been observed in the other 3 EDGs. One of the other 3 EDGs (2G002 ?) was just inspected about 2 weeks ago. We cannot be certain that the other 3 EDGs have been inspected in detail at this location due to the foreign contaminated material that gathers in the overlap between the two pieces of copper as joined. The other 3 EDGs have not been specifically inspected for this type of crack in this location in detail.

To comply with the Tech Spec requirement, we need to perform a common cause evaluation within 24 hours (by 21:00 8/20) to address the generic implication of this failure on the other EDGs. It appears at this time the other EDGs could be subjected to the same failure mechanism.

(b)(6)

/SONGS/SCE/EIX

08/19/2008 10:11 PM

To (b)(6)

cc

Subject 3G003 Cracked Conductor

All,

Initial indications from the boroscope inspection of 3G003 generator is that we have a cracked conductor on the 3G003 generator windings.

Engineering is validating SSID findings and is contacting ESI ti come to SONGS and advise on the repair plan.

Regards, (b)(6)