

810.4270318*

Additional Cause Description and Corrective Actions:

The cause of the cracking appears to be due to corrosion. The channel cover (which was temporarily repaired) was replaced and a detailed examination/evaluation of the CCW HXs was performed during the subsequent outage.

During the subsequent outages, a visual examination was performed on the inside surface of all component cooling water heat exchanger channels, channel covers, and salt water side tube sheets. A radiographic examination was performed on all CCW HX channel flanges to establish sound metal contour. Based on an evaluation of examination results which determined the root cause to be galvanic corrosion, plant change/modifications have been instituted to:

1. Reinforce the inlet nozzle on the 4A CCW HX on an interim basis until long term corrective actions below can be completed.
2. Add cathodic protection to both the Unit No. 3 and Unit No. 4 CCW HXs.
3. Install new channel covers and channels on both Unit No. 3 and Unit No. 4 CCW HXs.

The schedule for the above items is as follows:

Item 1 - complete

Item 2 - scheduled for implementation following receipt of materials

Item 3 - scheduled for implementation during the refueling outage subsequent to receipt of material.