

**From:** Stephanie Coffin *MLR*  
**To:** Gregory Cranston *RT*  
**Date:** Fri, Aug 4, 2000 3:45 PM  
**Subject:** Re: Definition of PWSCC

Stress corrosion cracking (SCC) is cracking caused by the simultaneous presence of a tensile stress, a specific corrosive medium, and a susceptible material. SCC can initiate on both the inside and on the outside of the steam generator tubes. When initiated on the inside of a tube, SCC is often referred to as "primary water stress corrosion cracking" or PWSCC.

PWSCC in particular is associated with areas of high stresses and thus are most commonly found in the tubesheet expansion transitions, in the U-bend transition and apex regions for the low row, small radius tubes, and in the tube support intersections especially if the tubes are dented.

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>>> Gregory Cranston 08/03 12:39 PM >>>

Do you have a good definition of PWSCC or SCC that we could use in our Inspection Report? If so, please send it me and Wayne Schmidt.

Thanks.

**CC:** Wayne Schmidt

*OK to release*

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*M/51*