ATTACHMENT 1
Steam Generator Replacements in the US, compiled 02/07/2012

From source (2)

Turkey Point 3 *(1982)*
 Turkey Point 4 *(1984)*
 H. B. Robinson 2 *(1984)*
 Indian Point 3 *(1989)*
 Palisades *(1991)*
 North Anna 1 *(1993)*
 V. C. Summer *(1994)*
 North Anna 2 *(1995)*
 Ginna *(1996)*
 Almaraz 1 *(1996) **
 Almaraz 2 *(1997) **
 Byron 1 *(1998)*
 Braidwood 1 *(1998)*
 Kori 1 *(1998)*
 STP-1 *(2000)*
 Farley 1 *(2000)*
 D. C. Cook 1*(2000)*
 ANO-2 *(2000)*
 Farley 2 *(2001)*
 Kewaunee *(2001)*
 Shearon Harris *(2001)*
 STP-2 *(2002)*
 Sequoyah 1 *(2003)*
 Palo Verde 2 *(2003)*
 Palo Verde 1 *(2005)*
 Beaver Valley 1 *(2006) **
 Watts Bar *(2006)*
 Fort Calhoun *(2006) **
 Palo Verde 3 *(2007)*
 Comanche Peak 1 *(2007)**
 SONGS 2 and 3 *(2009, 2010)*

Cracks in Alloy 600 steam tubes necessitated the replacement of some SG. (citation 1, p.7)

IV. Types of damage to steam tubes
Denting, fatigue cracking, fretting, Intergranular attack/stress-corrosion cracking, pitting, Stress-corrosion cracking, tube wear and wastage. The damage is caused by vibration and impurities in the water. Please see p. xxi, Wade. (3)

(1) Thevenet, Remi. " Replacement of Two-Blocks Steam Generators", AREVA-ANP SERVICES 26 - 28 May 2009, Lynchburg, VA, USA.
http://www.iaea.org/NuclearPower/Downloads/PLIM/2009-May-TM-USA/6_SGR%20in%20two%20blocks.pdf

(2) **Steam Generator Replacements,** BECHTEL POWER CORPORATION, FREDERICK, MARYLAND, 2005. http://www.bechtel.com/assets/files/PDF/SGR_Experience.pdf

(3) Wade, Kenneth. **"**Steam Generator Degradation and Its Impact on Continued Operation of Pressurized Water Reactors in the United States", Energy Information Administration/ Electric Power Monthly, August, 1995**.** ftp://ftp.eia.doe.gov/features/steamgen.pdf (This document also provided as attachment 4)