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**STRESS CORROSION CRACKING
(STANDARD ASTM G 30-90) IN STAINLESS STEEL
08X18H10T OF SWIMMING-POOL THAT CONTAIN
NUCLEAR FUEL IN REACTORS V.V.E.R.-440
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The "Standard recommended practice for making and using "U" bend stress corrosion test specimens; Designation G30-90" has been used as a laboratory tool to study the susceptibility of austenitic stainless steels and the other materials in test of intergranular stress corrosion cracking (IGSCC). The experiment has been development in a similar conditions of the chemical regime, the swimming-pool that containing nuclear fuel in borated water reactors VVER-440 in general this cladding by two films, one of carbon steel (04T26) and other with austenitic stainless steel 08X18HT (similar type 321) stabilized with titanium, the thickness of filler metals was 4 to 8 mm. The specimens was prepare one plate with this characteristics, the welding was put in the part central with the following measurements of 160x15x5 mm. The specimens strips bent approximately 180° around radius of curvature of R=14.5 mm and $\epsilon_1 = 17.2\%$ and maintained in this plastically deformed condition during the test. And then preparing metalografically and exposure in environment of 12 and 40 gr./ l of $H_3 BO_3$ 70 °C with or nothing contaminants of NaCl. The results showed the initial cracks.

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