NSF Channels
(Niobium, Tin, Iron)

The Light at the End of the Tunnel

BWR Excellence through Innovation
What it is...

NSF is a Zirconium alloy with 1.0% Nb, 1.0% Sn, 0.35% Fe

What it fixes...

NSF is resistant to channel bow that causes channel – control blade interference

- Fluence gradient-induced bow is low because NSF is resistant to breakaway growth that occurs in Zircaloy
- Shadow Corrosion-Induced Bow is a factor of 5 lower than Zircaloy-2

What is the Impact...

NSF will significantly decrease the susceptibility of channel - control blade interference and the need for operational testing.

For more information, contact your Global Nuclear Fuel representative or visit us at www.ge.com/nuclear