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To: Wayne Schmidt
Date: Fri, Jul 14, 2000 9:06 AM
Subject: IP2 SG Tube Problems Beyond Row 2

When looking at the list of plugged tubes I noticed that in SG22 the tubes in Rows 2, 3, & 4, Column 22 are plugged (rows 2 & 3 due to restrictions at the Top Support Plate and R 4 due to 'bad data'). This may be an indication of severe hourglassing of the N2 flow slot at the Top Support Plate at Column 22. Column 22 is near the center of the flow slot. R2C21 & R2C18 were also plugged due to restrictions at the Top Support Plate. Though all row 2 tubes have been plugged it might be worth rechecking the data for the row 3 tubes in that area. Per the Altran Report the stresses are lower on the row 3 tubes than on row 2 tubes even if there is significant hourglassing, but if the data for the row 3 tubes in this area shows a high noise level then the condition of the tubes is uncertain. I would be concerned about SG22, Row 3 tubes in that area (columns 17 to 27?). R2C26 was plugged due to U-bend restrictions and R2C28 was plugged due to bad data at SP 6H. For SG 22 the N2 flow slot had flow slot cracking at the first support plate in 1980 (C18), 1984 (C29), and 1997 (C17).

There is a smaller cluster in SG21. These are R2C53, R2C54, and R4C55, which are in the middle of flow slot M3. Again there is probably be severe hourglassing of the flow slot M3 and row 3 tubes in that area should be revisited. For SG 21 the M3 flow slot had flow slot cracking at the first support plate in 1997 (C49 & C56) and at the third support plate in 1984 (C57).

NRR has indicated concern regarding Row 3. Focusing on these two areas might help make a decision regarding the Row 3 tubes.

CC: David Lew

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