Verification Engineering Test Article (VETA) - I:

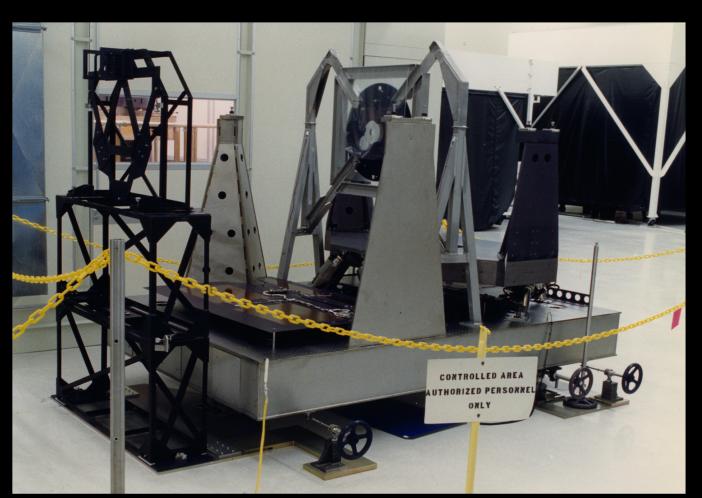
The Challenge of the Congressional Mandate for a Comprehensive Test of the P1/H1 Mirror Elements

Gary Matthews (ITT), Keith Havey (ITT), Jeff Wynn (ITT Retired), John LesVeaux (ITT Retired), Greg Young (NGAS), Tom Casey (ATK), Scott Texter (NGAS), Jon Arenberg (NGAS)

Original cartoons from 1991 by John Spina, Program Manager, ITT



VETA-I Internal Structure with actuators installed



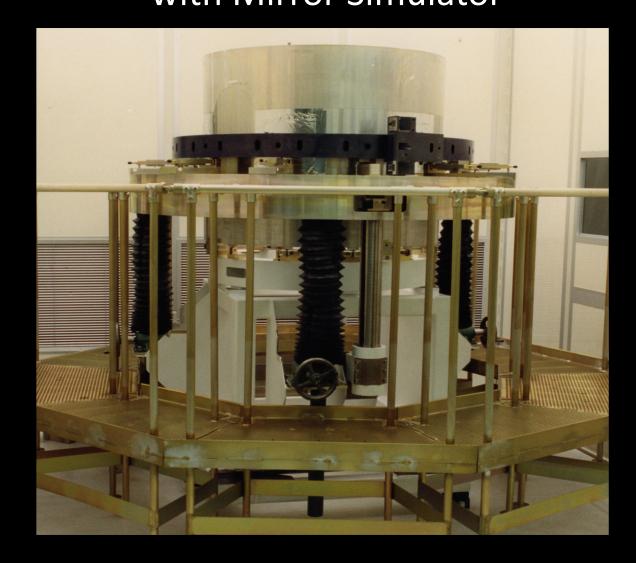
VETA-I with Thermal Shroud (Mailbox) and blankets installed



June 15, 1991 Delievery of the mirrors with 15 days to spare



Mirror Integration Station with Mirror Simulator



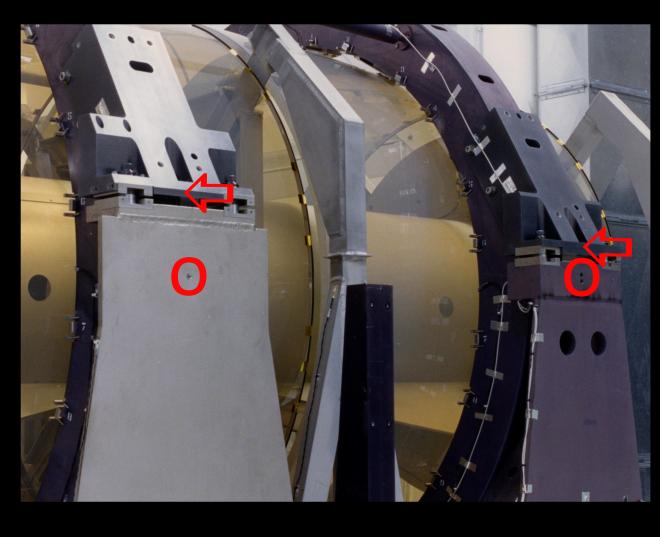
H1 Mirror during integration



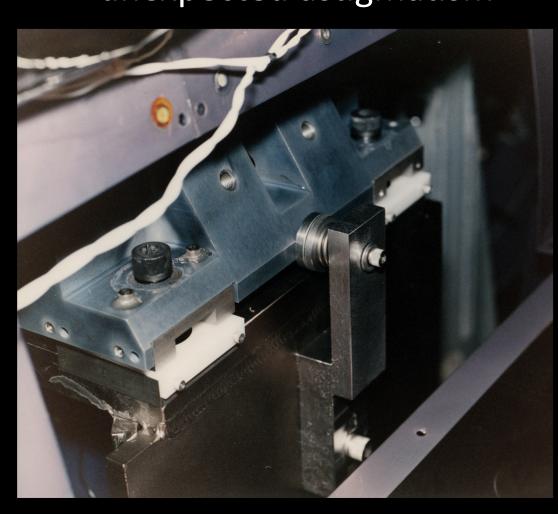
P1 Mirror installed in the Mount Ring



Close-up of "Squeezer" locations on mirror interfaces



Mirror "Squeezers" to eliminate unexpected astigmatism



Before and after mirror "Squeezers"

Note: Finite Conjugate Error Not Removed

VETA-I with both mirrors installed



Final images taken on September 17, 1991 showed a performance of 0.22 zrcsec.

~2X better than Spec 13 days Before Congressional Mandate Deadline

