Ethikos Volume 36, Number 1. January 01, 2022
Appendix 8a: Morton Thiokol Engineer (and Senior Expert on the O-ring seals) Roger Boisjoly's handwritten primary reasons for opposing the launch; and Appendix 8b: Morton Thiokol's final decision chart

Appendix 8a: Morton Thiokol Engineer (and Senior Expert on the O-ring seals) Roger Boisjoly's handwritten primary reasons for opposing the launch, presented during the main telecon session on the evening of January 27, 1986

FIELD JOINT PRIMARY CONCERNS SRM 25

- A TEMPERATURE LOWER THAN CURRENT DATA BASE RESULTS IN CHANGING PRIMARY O-RING SEALING TIMING FUNCTION
- SRM 15A — 80° ARC BLACK GREASE BETWEEN O-RINGS
  SRM 15B — 110° ARC BLACK GREASE BETWEEN O-RINGS
- LOWER O-RING SQUEEZE DUE TO LOWER TEMP
- HIGHER O-RING SHORE HARDNESS
- THICKER GREASE VISCOSITY
- HIGHER O-RING PRESSURE ACTUATION TIME
- IF ACTUATION TIME INCREASES, THRESHOLD OF SECONDARY SEAL PRESSURIZATION CAPABILITY IS APPROACHED
- IF THRESHOLD IS REACHED THEN SECONDARY SEAL MAY NOT BE CAPABLE OF BEING PRESSURIZED

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