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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

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

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