The Space Shuttle Challenger Teleconference



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Actors Against the Launch

- Robert Ebeling- Engineer, Thiokol, Utah
- Dr. Judson A. Lovingood-Deputy manager, Marshall Center
- Mr. Roger Boisjoly- Thiokol, Utah
- Robert K. Lund- Vice President, engineering, Thiokol
- Mr. Arnold R. Thompson-Supervisor, Thiokol
- Mr. Allen McDonald- Director, Thiokol
- Dr. Rocco Petrone- President, California facility, Rockwell

Actors for the Launch

- Mr. Joe Kilminster- VP Thiokol
- Hardy and Mulloy- Marshall center
- Mr. Arnold Aldrich- Manager, Johnson Space center

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Inhibiting Actors

- Stanley Reinartz-Manager, Shuttle Projects, Marshall Center
- Mr. McDonald- Thiokol, Kennedy Center
- Mr. Glaysher- Rockwell, Kennedy Center
- Mr. Cioffoletti- Rockwell, Kennedy Center

Parts of NASA

Managerial programs are divided into 3 field areas:

- 1. The Johnson Space Center, Houston, TX
 - Management of the orbiter
- 2. The Marshall Space Flight Center, Hunstville, AL
 - Solid Rocket Boosters, orbiter's main engines
 - -External tank
- 3. Kennedy Space Center, Marritt Island, FL
 - Assembling shuttle components
 - Testing
 - Conducting launches

Contractors

- 1. Martin-Thiokol Corporation, Utah
 - Solid rocket boosters
- 2. Rockwell International Corporations, space transportation systems division
 - -Design and development of the shuttle orbiter
- 3. Rocketdyne, division of Rockwell
 - Main engines for the orbiter
- 4. Martin Marietta Denver Aerospace
 - Development and fabrication of the shuttle's external tank

THIOKOL

Timeline 1

Prelaunch Meeting January 27, 1986

- No mention of SRB problems or the earlier o-ring erosion found on previous shuttles
- Cold weather not discussed as an issue

Timeline 2

Meeting 2 Jauary 27 14:00

- Dicuss cold weather in regard to showers, water drains, fire suppression systems.
- Fail to discuss SRB o-rings

Timeline 3

Meeting 3 January 27 14:30

- Engineers from Thiokol-Wasatch facility
- First time the concerns for the low temperature forecast were voiced
- Ebeling calls McDonald to express concerns about o-rings in SRBs at cold temperatures.
- McDonald contacts Kennedy Space Center to collect temperature data for Ebeling to review