

# New booster rocket for shuttle undergoes full-scale test-firing

BRIGHAM CITY, Utah (AP)—A redesigned space shuttle booster rocket roared into life in its first full-scale test-firing Sunday, a successful and crucial step before the planned renewal of shuttle missions next June.

The 126-foot-long solid fuel rocket blasted orange flame 500 feet and a thick cloud of smoke boiled 1,500 feet into the sky above Morton Thiokol Inc.'s desert test site 25 miles west of here as 9,500 spectators watched.

Before the solid fuel boosters are certified and the shuttles are allowed to fly again, officials have decided that the redesigned booster must be test-fired at least four times on the ground.

Adm. Richard Truly, the National Aeronautics and Space Administration associate administrator for space flight, said the test-firing breathed new hope into the nation's space program, which has been grounded since Jan. 28, 1986, when an explosion destroyed the shuttle Challenger, killing its seven-member crew.

A presidential commission later blamed the disaster on a faulty seal in the booster rocket that allowed hot exhaust gasses out the side of the rocket, igniting Challenger's external liquid fuel tank. NASA officials hope the new design has eliminated that flaw.

"I feel good about what we saw, but the proof of this pudding will come in the next few days" after engineers have had a chance to analyze the results, he said.

"This first demonstration of this series of (full-scale) tests will mean that we don't have to change direction, that's the important thing," Truly said. "It will prove that in fact the track we're on is the right track."

Allan McDonald, director of Morton Thiokol's solid rocket motor redesign team, said, "We're absolutely

convinced that we have the ability to do what we need to do if we just put effort into it. I think this is going to be the thing that gets us back on-line with the shuttle program."

In all, seven such test-firings are planned, four of them before the scheduled resumption of shuttle missions on June 2, 1988. By com-

parison, Raab said, 11 test-firings were conducted for the booster used before Challenger exploded.

In addition to the full-scale experiments, Morton Thiokol has conducted hundreds of smaller-scale tests.

The test of the booster was originally scheduled last Thursday, but was aborted three times by test equipment failures.

John Taylor, spokesman for the Marshall Space Center in Huntsville, Ala., told reporters Sunday that the first abort, caused by the failure of a water line for a cooling system, led to the two subsequent delays involving computer problems that occurred when engineers tried to reset the countdown.

"The abort . . . created these ground-support problems where the computers were out of sequence," Taylor said.

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— Adm. Richard Truly

tely elated about what we've seen today."

Following the test, engineers approached within 50 feet of the still-hot booster rocket and scanned it with binoculars. McDonald and John Thomas, head of NASA's booster rocket design team, said all of the rocket's systems appeared to have operated as expected.

The rocket used up 1 million pounds of propellant during the two-minute test, consuming it at a 9,000-pound-per-second pace, company spokesman Rocky Raab said.

Carver Kennedy, Morton Thiokol's vice president for space projects, said, "It obviously ran the right amount of time. The plume ran normal, it appears to be a normal, successful test."

Sen. Orrin Hatch, R-Utah, one of hundreds who watched the test, said, "These people showed once again

# Lee Marvin, 'tough guy' movie great, dies at 63 of heart attack in Arizona

TUCSON, Ariz. (AP)—Oscar-winning actor Lee Marvin, a gravel-voiced World War II Marine who went on to star as the consummate tough guy in films like "The Man Who Shot Liberty Valance" and "The Dirty Dozen," has died at the age of 63.

Marvin, who also played an unwanted role in a historic "palimony" suit, died of a heart attack Saturday at Tucson Medical Center.

Marvin's third wife and childhood sweetheart, Pamela Feeley, was at his bedside when he died, Tucson Medical Center spokesman Tom Reavis said.

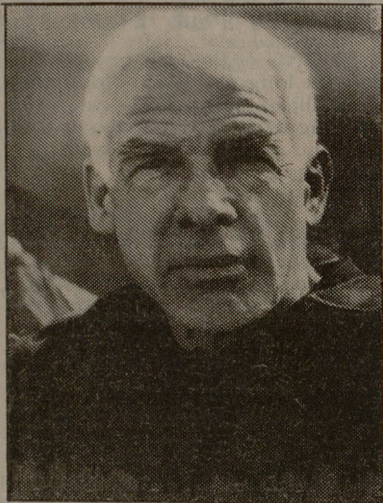
Marvin had been hospitalized since Aug. 13 with a run-down condition related to the flu.

Ernest Borgnine, who starred with Marvin in "Bad Day at Black Rock" in 1954 and "Emperor of the North Pole" in 1973, wept when told of Marvin's death.

"We always had a great respect for each other," he said.

"We loved each other. The old rascal never let on, but he was a softy."

"He knew I knew that. I will miss him."



Lee Marvin

Last December, Marvin had intestinal surgery after suffering abdominal pains while at his ranch near Tucson.

Hospital spokesmen said then

there was an inflammation of the colon.

But no malignancy was found. After fighting in the Pacific during the war, Marvin fell into acting by chance while working as a plumber's assistant.

He landed a small role in "You're In The Navy Now" in 1951.

He established himself in the 1950s and 1960s as a menacing figure, ever brandishing a gun and a mean expression.

Marvin's best-known tough-guy roles were in such films as "The Dirty Dozen," "The Man Who Shot Liberty Valance," "The Big Red One," "Donovan's Reef," and "Prime Cut."

His television series "M Squad" ran for three years beginning in 1958.

Marvin won an Academy Award as a double character in his role as a drunken gunfighter and his evil twin in "Cat Ballou," the 1965 western parody which also starred Jane Fonda.

President Reagan, who co-starred

with Marvin in the 1963 movie "The Killers," and his wife, Nancy, extended their sympathies to Marvin's family and friends.

The president and Mrs. Reagan are vacationing in Santa Barbara, Calif.

In 1979, Marvin made headlines in a landmark "palimony" case when he was sued for half his fortune by his former live-in girlfriend, Michelle Triola.

She legally changed her last name to Marvin.

Her right to sue was upheld but her claim was ultimately rejected, though the actor was ordered to pay her a nominal sum for rehabilitation.

In 1984, after marrying for a third time, Marvin moved to his Tucson ranch.

"There is going to be a very small, private funeral in Tucson," his publicist, Paul Wasserman, said Sunday in Los Angeles.

A public memorial service will be held in Hollywood within two weeks, he said.

# Abortion rights activists predict fights in court over new legislation proposals

WASHINGTON (AP)—The Reagan administration's proposed rules to cut federal money for abortion counseling won applause Sunday from abortion opponents, but abortion rights activists predicted the regulations will be fought in the courts.

"The representatives of the reproductive rights community are ready to litigate the minute these regulations go into effect," said Jennifer Pizer, legal coordinator for the National Abortion Rights Action League.

Pizer charged the administration's intent "is basically to shut off all information about abortions."

On Saturday, the Department of

Health and Human Services unveiled the proposed rules, which one official said were designed to "build a high wall" between abortion clinics and federally funded family planning programs.

Under the proposals, family planning clinics that receive federal funds — but carry out abortions with private funds — would be required to keep the two functions totally apart by such means as separate entrances, examination rooms and medical and financial records.

The proposals were outlined in a policy announced last month by President Reagan. They will be published Tuesday in the Federal Register and spell out how the depart-

ment would revise Title X of the Public Health Act.

Last month, Reagan directed HHS Secretary Otis Bowen to eliminate all Title X language that requires recipients of federal funds to suggest abortion as an alternative for pregnant women.

Following a 60-day comment period, the department analyzes the comment and usually issues final regulations.

Joseph Scheidler, executive director of the Chicago-based Pro-Life Action League, praised the proposed regulations as signs of a move toward a ban on federal funding for all family planning services.

"I think it's a good start that they

are separating abortion completely from other quote-unquote services," Scheidler said. "But we won't be really happy until all tax money is withdrawn from these services altogether."

"If people want to pay for that stuff, that should be their business but it shouldn't be with our money."

Phyllis Schlafly, president of the conservative Eagle Forum, said the proposed regulations were a good idea.

"I think the American people and Congress do not want to fund abortions in any way," Schlafly said in a telephone interview from her home in Alton, Ill. "I think these regulations are long overdue."

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