

Daily Press, Tuesday, Oct. 14, 1986 A3

### ■ Booster redesign

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A vertical stand "will not replace the precise conditions experienced during launch and flight."  
But the experts conditioned their approval of horizontal testing on a large expansion of those tests to duplicate all the forces encountered in launch and flight.  
The panel recommended building a second horizontal test stand, "to be used as an alternative to the current facility and to provide a facility suitable for conducting dynamic tests of the structure, nozzle, wald etc."  
It also recommended building a second joint test stand.  
The experts objected that NASA is planning only one full-scale test of the booster rocket's new nozzle that will run for the full length of a normal flight.  
"We recommended additional full-scale, full-duration testing to assure that the various elements of the design... operate as expected over the range of conditions," the panel said.  
In our opinion, a single full-scale, full-duration static test of the redesigned nozzle (prior to the first flight) is simply not sufficient.  
NASA spokeswoman Sara Keegan said, "The appropriate staff people will study the report in detail and consider all the recommendations they make. We certainly appreciate the thorough and expert analysis they are making of the redesign and certification."  
She said that because Monday was a federal holiday, she could not reach any NASA official.

who could estimate how much the additional proposed tests would cost or whether they would delay the agency's plans to resume shuttle flights in February 1988. The panel's report did not address those questions.  
In an interview, Stever, chairman of the 11-member panel, said, "We considered the second horizontal test stand so important that we didn't wait for cost estimates, but it will be in the low tens of millions of dollars somewhere."  
Stever, who is foreign secretary of the National Academy of Engineering, said it was impossible to estimate whether the additional tests the panel sought would delay the first shuttle launch. But, he said, "There's even a chance the testing could be shorter if things stand up well. We just want much more testing."  
The experts strongly recommended that NASA "explore and develop original, possibly quite different (nozzle) designs for the next generation of the solid booster rocket in parallel with the current redesign effort and for the contingency that the baseline design may not perform sufficiently good performance and margin of safety."  
NASA's current redesign uses a mechanical capture device to prevent hot gases from leaking through a booster rocket joint as they did on the Challenger flight, igniting the external tank. The panel said heliport or pumped designs now under study might provide a better ultimate solution.

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The combine driver suffered only minor injuries and was not hospitalized, and the other truck driver was not hurt.

### ■ No leakage reported

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### America's Richest Who They Are

Rank	Net worth	Name	Age	Home	Where it came from
1	\$4.5 billion	Samuel M. Walton	66	Bentonville, Ark.	Discount stores (Wal-Mart chain)
2	\$2.5 billion	John W. Kluge	72	Charlottesville, Va.	Communications (Metromedia Computers (EOS) investments)
3	\$2.5 billion	H. Ross Perot	56	Dallas, Texas	Computers (Hewlett-Packard)
4	\$2.0 billion	David Packard	74	Los Altos Hills, Calif.	Computers (Hewlett-Packard)
5	\$1.4 billion	Warren E. Buffett	56	Omaha, Neb.	Stock market investments
6	\$1.4 billion	Leslie H. Wexner	49	Columbus, Ohio	Women's clothing stores (The Limited)
7	\$1.3 billion each	Forrest E. Mars Forrest E. Mars Jr. John F. Mars	80 55 51	Las Vegas, Nev. McLean, Va. Arlington, Va.	Candy (M&M/Mars)
10	\$1.3 billion	Lester Crown	61	Chicago, Ill.	Inheritance, industry, real estate

### ■ 400 richest in U.S. named

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The youngest is 25-year-old Michael Currier of New York City, worth an inherited \$200 million.  
At the top of the list is Walton, of Bentonville, Ark., whose fortune grew 40 percent from last year's estimate of \$2.4 billion thanks primarily to the increased value of his stock holdings in Wal-Mart, the magazine said. He opened his first Wal-Mart discount store in 1962 and today has more than 900 stores, mostly in small towns.  
"There was a lot more business in those towns than people ever thought," he says.  
Kluge, 72, took control of Metropolitan Broadcasting in 1980. He took the company private in 1984 in a bold \$1.2 billion buyout and has been liquidating ever since.  
Perot, 56, founded his own company in 1982 and sold it to GM in 1984 for \$1.2 billion. He is currently a GM director.  
David Packard, the 74-year-old chairman of Hewlett-Packard, was fourth with \$2 billion, fifth with about \$1.4 billion.  
Leslie Herbert Wexner, 49, of Columbus, Ohio, also has a net worth of \$1.4 billion, primarily from The Limited clothing stores. And a giant candy empire brought a \$4 billion fortune to Forrest Edward Mars Sr. and his two sons.  
While the 56 billionaires was a record, Forbes magazine said there would have been more if it were for the 129-point tumble in the Dow Jones average in mid-September. The drop came just before the magazine proved all publicly held stocks to determine the net worth of the 400.

### ■ Parkway

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Miss Dowd had transferred to W&M in January from Dickinson College in Carlisle, Pa. She was a graduate of the American School in Paris. Her father was in London at the time of her death.  
Although she had not been seen on campus since Thursday, no missing person report had been filed. Dean of Students Samuel Sadler said that because fall break began after classes Friday, it was not unusual to have students leave campus early.  
Wagner said Miss Thomas had not been reported missing either.  
Ms. Thomas graduated from the U.S. Naval Academy and was discharged from the Navy this year after serving as a protocol officer at U.S. Atlantic Fleet headquarters in Norfolk, Wagner said.  
The Associated Press reported that in June she had begun working as a stockbroker for Brokers Securities Inc. of Virginia Beach, according to Buddy West, company president. Ms. Thomas did not show up for work Friday, but West said he was not sure whether she had planned to come to work.  
The William and Mary campus was already on a 24-hour alert because of the Oct. 4 rape, and Sadler said that would be extended for several days because of the weekend homicide.  
Most W&M students will return from fall break late today for Wednesday classes to find additional uniformed security personnel on campus. A written statement from Sadler was distributed Monday afternoon to tell students about Miss Dowd's death and to assure them there was no connection between her death and the earlier rape.  
The FBI is handling the investigation because the parkway is federal property.  
Anyone with information about the incident or who saw the two women between Thursday night and Sunday is asked to call the FBI at 652-3111.  
Hampton, York County and State Police are assisting in the investigation, Wagner said.

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