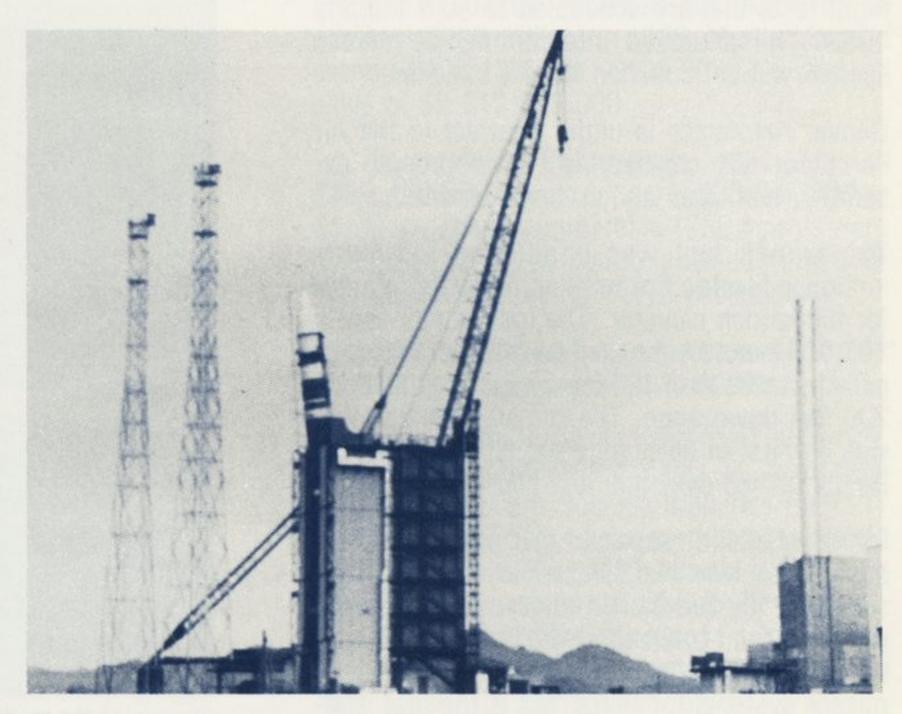
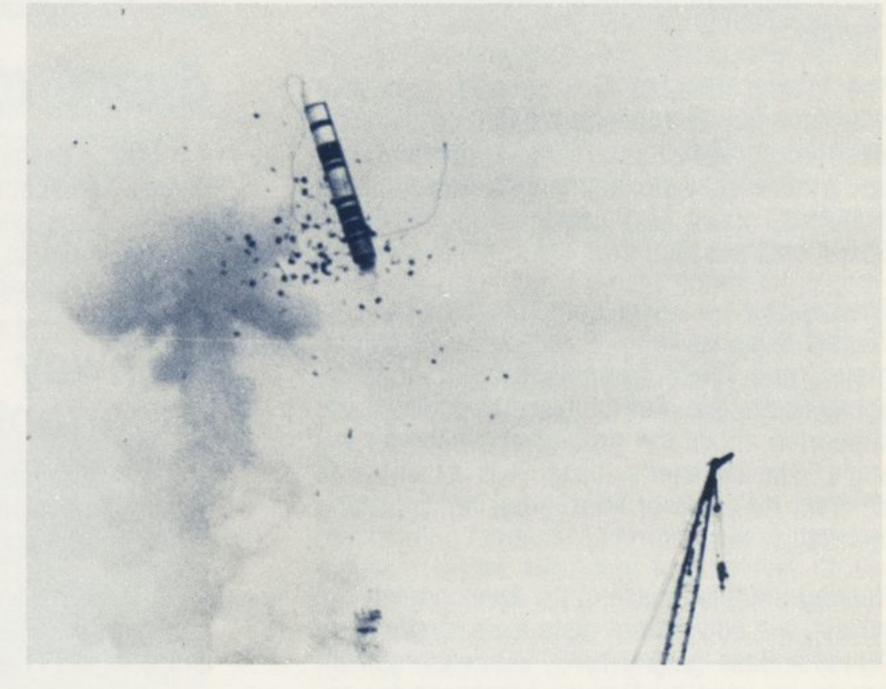
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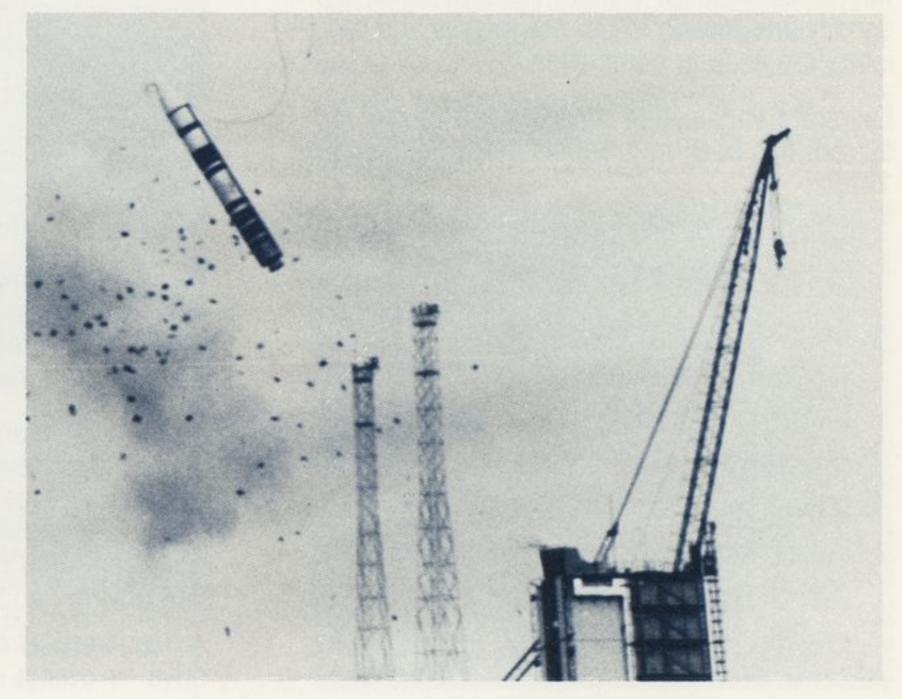
MARTIN MARIETTA

DENVER AEROSPACE









Simulated MX is launched from cannister

A simulated MX missile flew for the first time January 26 — if only for a few hundred feet — in a test of its canister launch system by U.S. Air Force contractors at a desert test location north of Las Vegas, Nevada.

The purpose of the test was to demonstrate the launch method and equipment for MX missile flight tests that are scheduled to start in early 1983. The deployed intercontinental missile system will be launched from a canister.

Denver Aerospace is under contract to the Air Force for MX engineering, development, assembly, test, and launch development.

The launch test was conducted by Westinghouse Electric Corporation as subcontractor for the launch canister. The test launch sent a 195,000-pound simulated missile without propellants more than 100 feet in the air and nearly 200 feet downrange. The canister ejection test was the first of up to nine similar tests that will be performed over the next two years.

MX uses a solid propellant gas generator in the base of the tube-like canister to eject the four-stage missile and start it on its way before the missile's solid-fuel motors are ignited. Although submarines have had canister launched ballistic missile systems for years, MX is the first land-based missile of its size to use the cold-launch method.

The 71-foot long, 92-inch diameter simulated missile used in the test lacked propellants, electronics, and all other internal components, but otherwise was identical in external appearance, mass, and center of gravity to an operational missile.

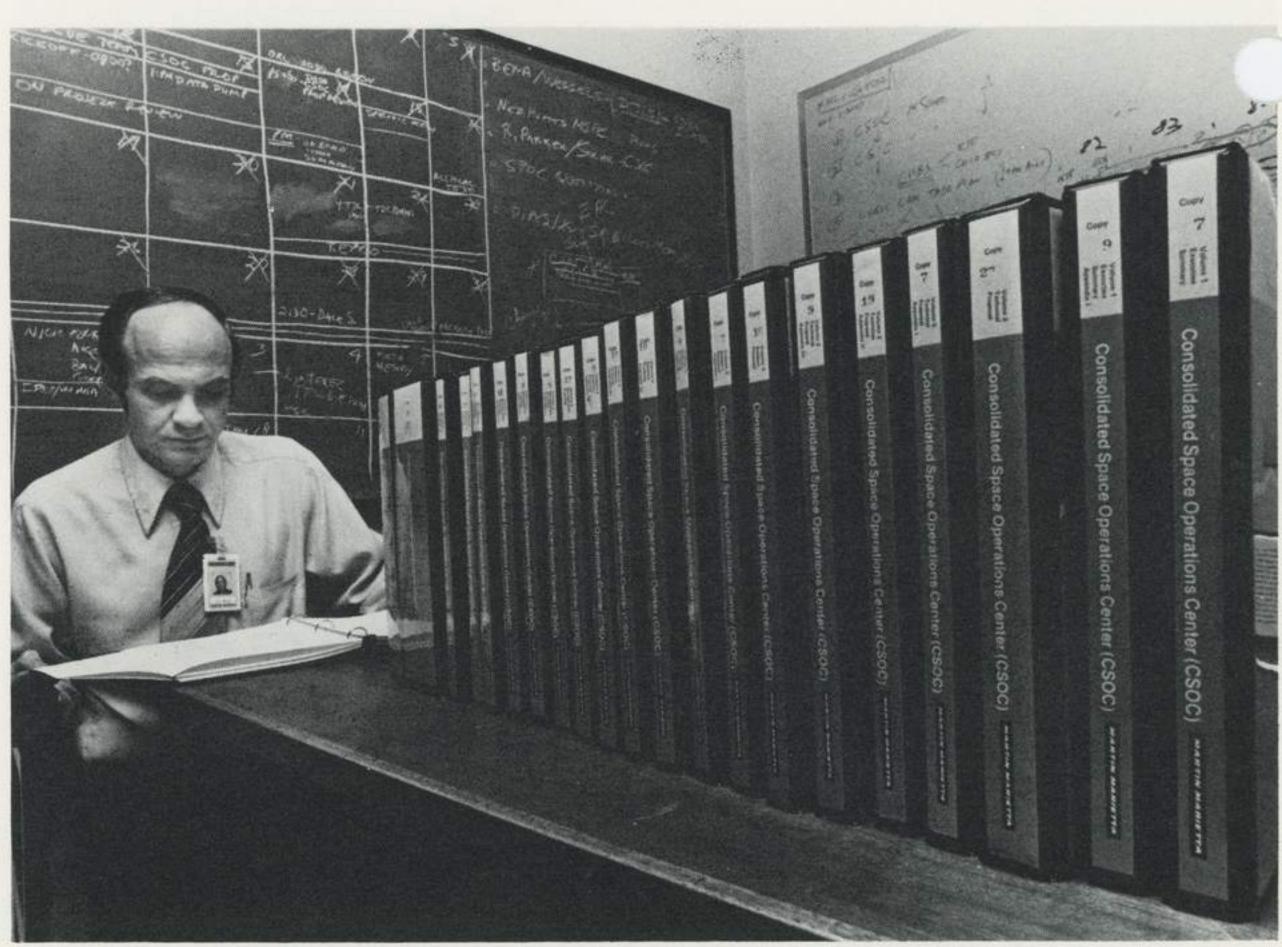
The canister — a development prototype — is 76 feet 9 inches long, 9 feet 2 inches in diameter, and made from lightweight graphite/epoxy composite. For the test, the canister was supported above the ground at a near-vertical angle. The canister's design will accommodate different methods of missile basing, including installation in silos.

Nearing the final phase of its development, the missile will begin flight tests from Vandenberg Air Force Base in early 1983. Vandenberg facilities to be used by Denver Aerospace for assembly and testing of the MX missile and canisters are nearing completion.

Full-scale engineering development of the MX system has been in progress since September 1979.

On the Cover

A simulated MX missile is lowered in to the canister in preparation for a launch test. In the sequence photos, the missile leaves the canister and travels on its short and successful flight path.



Reviewing the multivolume consolidated space operations center proposal is Larry D. Mills, a member of the proposal team. The proposal was delivered February 1.

Space operation center proposal is delivered

A proposal prepared to lead to the selection of Denver Aerospace as the integrating contractor for a new consolidated space operations center was delivered to the U.S. Air Force Systems Command's Space Division February 1.

Highway safety is important to everyone

Safety off the job is as important as on the job. An accident at home or on the highway is as costly as one on the job to everyone.

As C. B. Hurtt, Denver Aerospace president has reported, workplace safety has been excellent and the goal is to keep it that way.

The safety department is urging employees to take the same safety habits home with them.

Of prime importance is highway safety. The accident rate on highways has been climbing and law enforcement agencies, legislatures, and other public officials are proposing more stringent measures to curb accidents.

This is especially true in dealing with drivers under the influence of alcohol and drugs. Larger fines, longer jail terms, and longer license suspensions are being proposed.

The safety department is urging employees to take the lead in preventing highway accidents by reporting unsafe conditions, drivers who are apparently under the influence of alcohol or drugs, and by developing more fully their own safe driving habits.

A final word of caution: If you do drink, don't drive — even a short distance.

The center, expected to be located in the Co rado Springs area, will support launches or Space Shuttle as well as support orbiting spacecraft. The new facility will be used primarily for Department of Defense missions.

Allan L. Schaefle is program manager of the effort and will continue in that position if the five-year contract is awarded Denver Aerospace.

Joseph T. Keeley, who led the proposal effort, will become deputy program manager. Other key people will be selected from those who have worked on the payload integration support contract, Shuttle mission support, ground support system efforts, and the MX program.

Announcement of the contract award is expected in mid-May. At least three other major aerospace firms are vying for the contract.

Loaned executives aid in fund raising

The Denver Symphony orchestra and Junior Achievement have received assistance in their fund raising programs from loaned executives assigned to them by Denver Aerospace.

Robert G. Garcia, personnel, is working with the Denver Symphony in its campaign which enderebruary 19.

Daniel Urbina, airborne structures and mechanisms design, helped Junior Achievement from January 18 to January 29 in a telephone campaign enlisting the support of local businesses for the JA program.

MX facility dedicated at Vandenberg AFB

The first MX test facility was dedicated January at Vandenberg Air Force Base.

dedicated the integrated test facility (ITF) building saying that the event "represented substantial progress toward the goal of having an operational MX defense system."

Others taking part in the dedication ceremonies were Congressman Robert Lagomarsino; Maj. Gen. Jack L. Watkins, commander of the First Strategic Aerospace Division; and Maj. Gen. Forrest T. McCartney, commander of the Ballistic Missile Office of the Air Force Systems Command.

The ITF is a 99,980-square-foot building and one of 12 MX facilities at Vandenberg. It houses tests operations and the control center, as well as computerized systems used in monitor, control, test, and launch support operations.

The first launch of an MX missile is projected for early 1983. Approximately 20 test launches will be completed before the MX system becomes operational.

Management club elects officers at Canaveral

Officers for 1982 have been elected by the Cape Canaveral/Kennedy Space Center Management club. The new officers are James Mathena, president; A. Peter Gaenicke, vice president; pert Penn, secretary; and Harlan Trimble, measurer. Directors elected are J. Edward Carpenter, Robert Moore, James Madden, and Robert Larsen. Returning directors are Gene Wyckoff and Carl Welton.

The club represents all Denver Aerospace employees in Brevard County, Florida. Its objective is to provide members with the opportunity for growth in management skills and to promote a professional spirit.

Committee chairmen named by the new officers are M. Paquitta Eubanks, awards; Barry Signorelli, education; Gerald David, hospitality; Eva Museby, membership; S. Stevens Tucker, parliamentarian; Harold Casleton, program; Lynn Johnson, promotion; Melodie de Guibert, publicity; and Robert Matschner, special events.

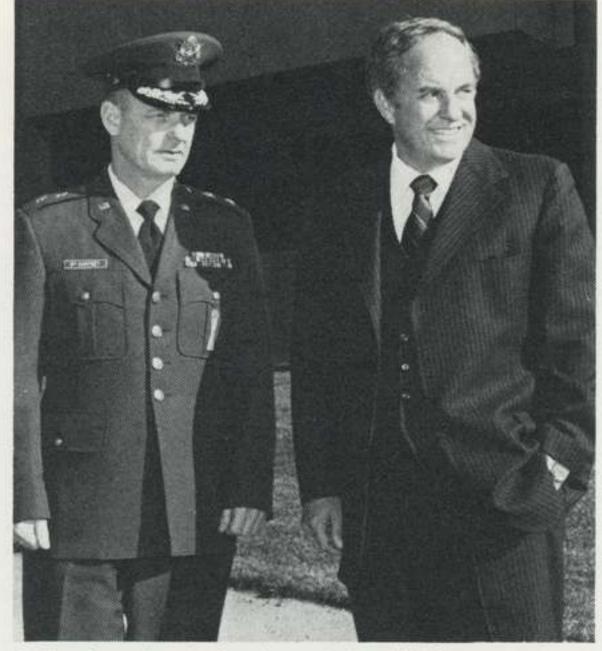
Updated employee guide is being distributed

New pages for the Employees' Guide to Denver Aerospace are now available from department administrators.

Exempt and non-exempt salaried employees may receive the updated contents pages by returning their employee guide to their administrator.

rough reuse of the binder and recycling of the dated pages, costs of keeping current the more than 9,000 guides have been minimized.

Administrators are urged to place the outdated pages, front and back cover inserts, and the spine inserts in the Operation Santa Claus carts or boxes.



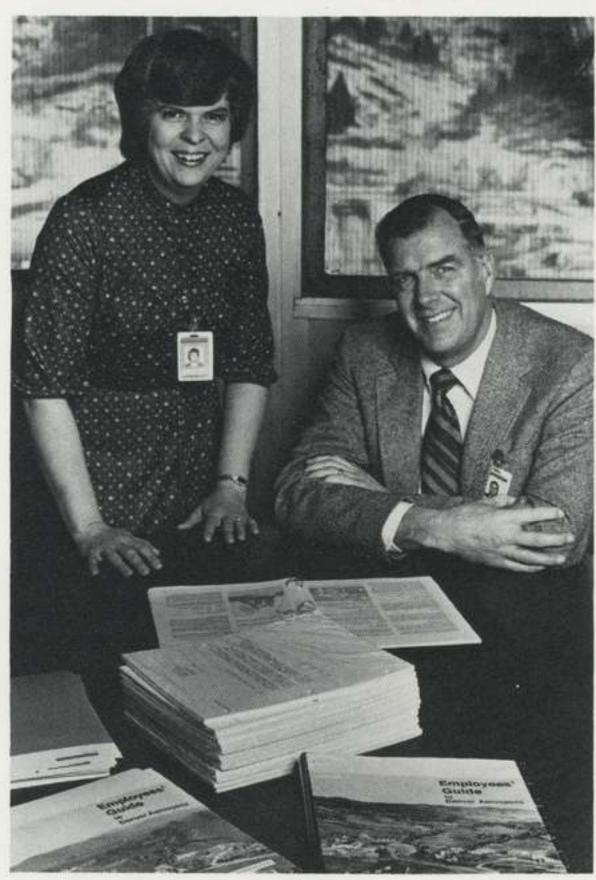
Following the dedication of the MX integrated test facility building at Vandenberg Air Force Base, Maj. Gen. Forrest McCartney, left, commander of the Air Force Systems Command Ballistic Missile Office at Norton AFB, and Howard F. Keyser, vice president and general manager strategic systems division, met to discuss progress on the MX program.

Safety performance goals met at all locations

C. B. Hurtt, Denver Aerospace president, has congratulated employees for attaining or exceeding 1981 performance safety goals at all locations.

"However, I believe that for 1982 we can maintain or better our 1981 experience. That is why I have set goals to reflect this challenge.

"As you know, I believe safety and risk control play an important part in an overall performance," he added. "I expect all employees to strongly support and give particular attention to meeting our 1982 goals."



New contents for the Employees' Guide are checked by Beverly K. Fuhrmann, left, and Vincent H. Corbett, before distribution.

Sales, earnings at highest levels for Martin Marietta

The Martin Marietta Corporation's 1981 sales and earnings reached their highest levels.

Results for the full year were \$200,072,000 of earnings, or \$5.39 per share, on sales of \$3,294,087,000. It was the first time Martin Marietta's volume exceeded \$3 billion or its earnings \$200 million. In 1980, Martin Marietta earned \$188,133,000, or \$5.03 per share, on sales of \$2,619,327,000.

Fourth quarter 1981 results were sales of \$860,473,000 and earnings of \$38,647,000 or \$1.08 per share; comparable 1980 figures were \$711,005,000 of sales and earnings of \$43,492,000, equal to \$1.16 per share.

Per share earnings reflect a three-for-two stock split accomplished in the fourth quarter of 1981.

J. Donald Rauth, chairman and chief executive, said: "Continued strong gains in Aerospace were the dominant positive influence on 1981 results. Our Aerospace company's sales neared the \$2 billion level in 1981, accompanied by a gratifying increase in its contribution to corporate earnings. That company is in an outstanding growth cycle, which seems likely to continue for the foreseeable future.

"It was a difficult year, because of recession, for our other companies, and particularly for our Aluminum company. It has the history and potential for being a major source of corporate earnings, but its 1981 contributions declined because of shrinking markets and rising costs. Weakening Aluminum profitability accounted for most of the lower corporate earnings in the fourth quarter. Our Cement company accomplished a moderate increase for the year in profitability, although some of its regional markets remained weak. The earnings contributions from our Aggregates and Chemicals companies declined from 1980.

"In the new year, 1982, we expect another outstanding Aerospace performance. Economic recovery is the 1982 key for the rest of our enterprise, particularly in Aluminum. Overall, I believe Martin Marietta's 1981 results provide further evidence of strengths in our diversification. It is not to disparage those results in any degree to say frankly, however, that they would have been better had we been able to operate our excellent array of industrial facilities at higher levels in a healthier economic environment."

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Call Ext. 5364 with information or suggestions for articles, or call one of the following coordinators. Kenneth E. Sedlmayr 6872 Technical Operations: Solar Energy Systems: Leon E. Taylor 0660 Business Development: Leonard G. Taigman 4466 Space/Electronics Systems Division: J. H. Guilfoyle 6944 Strategic Systems Division: John H. Pond 9165 Space Launch Systems Division: Steven L. Cohen 1798 MICHOUD DIVISION: Canaveral Operations: Donald T. Beck 9108 External Tank Operations (KSC): Melodie deGuibert 3160 William Leary 2202 Vandenberg Operations:

DENVER AEROSPACE
P. O. Box 179—Denver, CO 80201

February 12, 1982

Performance Management course called success

The Performance Management course held January 25-29, the first of a core series of three management courses to be offered this year, has been called "highly successful."

"The evaluations have been very good," says John F. Hallen, manager of organization and management development. "We had 35 people attend, with a five-person instructor team representing different functional areas in addition to the organization and management development department."

Emphasis in the Performance Management course is on interpersonal skills, group leadership and membership skills, coaching and negotiating skills, and influencing environments beyond the work group.

Representatives from different grade levels enrich discussions and information sharing, and assure that the management team shares a common management philosophy based on the norms and values of Martin Marietta culture.

In addition to Performance Management, the basic management development courses are Effective Supervisory Practices, and Project Management.

Information on the management development programs and requirements for participation is available from the organization and management development office, Ext. 6620.

Employees urged to observe parking rules

"With the weather conditions we have been having, it is more important than ever that employees park only in designated areas," said Tom M. Crawford Jr., director of personnel safety and security.

"Emergency vehicles may need to respond quickly to protect lives and property. If fire lanes and roadways are blocked by improperly parked cars, fire and rescue equipment may be delayed.

"However, just because winter weather is emphasized," Crawford said, "that doesn't mean that parking is permitted in fire lanes and roadways on clear, warm, and sunny days."

Crawford also reminded employees that all traffic laws, not just parking regulations, are enforced on company property. Violators are ticketed and their citations reported to their supervisors.

One regulation that is being made easier to comply with is the one requiring decals on all vehicles.

"We know that decals issued in the past have not been as durable as they could have been," Crawford said. "We are issuing replacements that resist peeling."

Employees who need replacements, or employees who have not registered their cars as required, may obtain the new decals from plant protection headquarters, or at the guard desks at the Denver Systems Center and in building 6030 at Greenwood Commons during February.



Small group discussions were a part of the recent Performance Management course offered by the organization and management development office. In this group are, left to right, Michael Davis, John Montague, and Jerry Anderson.

NASA honors KSC group

Three Denver Aerospace employee groups at Kennedy Space Center (KSC) have received NASA Team Awards.

The launch equipment test facility and the thermal protection system debonding repair teams of Michoud division's external tank operations, and the solid rocket booster deceleration subsystem team from Denver were honored for their "significant contributions to the nation's aerospace program which aided in the effective accomplishment of KSC mission objectives."

George Page, NASA's launch director at KSC, presented the awards to the external tank operations employees.

Members of the launch equipment test facility team include Carl Fischer, Delmar Henry, Robert McConnell, Hugh Devlin, Charles Sweeney, and Edward DeBusman.

Those on the thermal protection system debonding repair team are Calvin Moser, Richard Jones, Lee Stewart, Ronald Blackard, Richard Hare, Jerry Rucker, Christopher Feagan, Terry Jones, Raymond Kern, Andrew Frida, James Mattheus, Phillip Moody, Allie Hilton, D. Harry Diggers, Douglas Powell, Carl Housman, Robert Bunch, Joseph Bering, M. Maxwell Taylor, Thomas Levitt, and Kevin Ely.

Thomas S. Walton, NASA's KSC director of cargo operations, presented the award to the deceleration subsystem team. Team members are Ken Eflin, Mark Faucher, Jesus Gonzalez-Alvarado, Robert Meyer, and Craig Crowl. Tom Metz and George Hinkel of the Pioneer Parachute Company, a subcontractor, also received award certificates.

Recreation

Parapsychology: Daniel Condron, director of The School of Metaphysics, will be the speaker at the February 17 meeting of the Parapsychology Club. The meeting will be held in West Point 271 beginning at 5 pm.

Ski Trips: The Satellite Ski Club has trips planned for February 19-21 to Taos, February 26-28 to Telluride, and a one-day trip to Copper Mountain March 7. Information is available from the recreation office, Ext. 6750.

PSRA honor Michoud for 1980 Open House

The Michoud division public relations department has received the first award of excellence from the New Orleans chapter of the Public Relations Society of America (PRSA).

Evan McCollum, public relations manager, and David Peri, now marketing representative, were cited for their work on the division's "Space Day '80 in New Orleans" open house held November 15, 1980.

Space Day was cited as an unusually creative special event aimed at improving employee and community relations. The program featured dubloons, special edition posters, tours of factory, and visiting astronauts.

The award of excellence is the PSRA chapter's highest award. Competition included a local utility company, several public relations agencies, Shell Oil Company, and others.