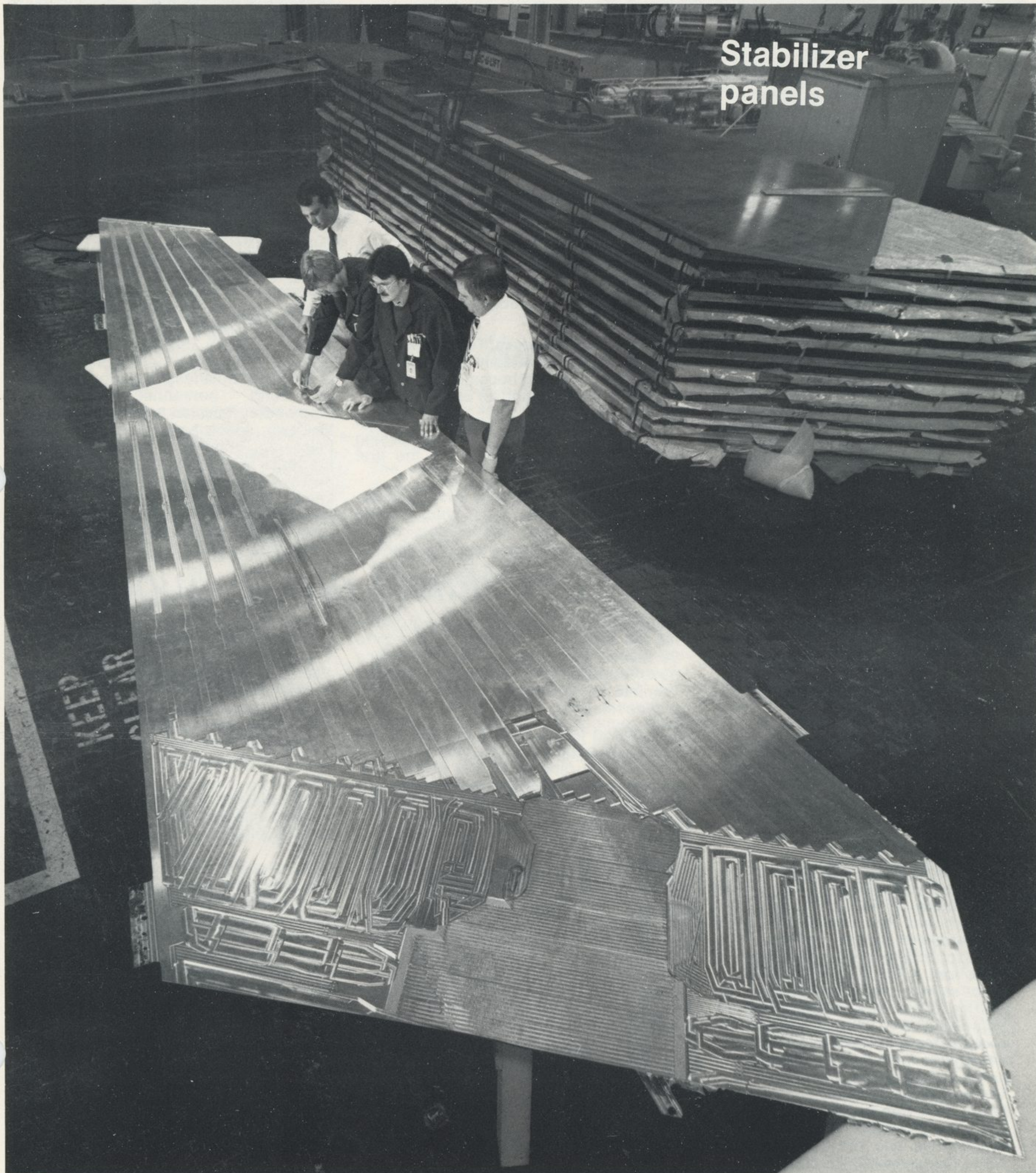


MARTIN MARIETTA

news

DENVER AEROSPACE

NUMBER 16/1983



Stabilizer panels

Work begins on panels for new B-1B bomber

Sixty-four skin panels for the horizontal and vertical stabilizers on the new B-1B bomber are to be built at Denver Aerospace. The first two have been finished.

On the cover

Panels for the B-1B bomber horizontal stabilizer are being milled in the detail machine shop here. Left to right in the cover photograph, Don Kalstein, Leonard Potter, Danny Hartman, and Brant Farrow examine one of the first panels.

"Our contract is worth about \$2 million and extends through early 1985," said Donald I. Kalstein, program manager.

In addition to the panels, the Denver factory is building the necessary handling fixtures in the detail machine shop as well for the Baltimore division, under its subcontract from Rockwell International. Upon completion, the skin panels will be shipped to Baltimore for assembly onto the horizontal and vertical stabilizers.

Each ship set requires two upper and two lower stabilizers panels. Contract calls for stabilizers for 16 of the new military aircraft, with an option for more such work later.

Machining is being done on the numerically controlled G&L skin mill, followed by manual and cleaning work. Each panel takes about 100 hours to complete.

"We're happy to have this kind of work in the shop," said Anthony J. Fria, manager of support services. "Because, besides providing a base of work, it also helps retain our skills, and that makes us more competitive for new business."

The B-1B flies at low supersonic speed and has an intercontinental unrefueled range. With a forward wingspan of 137 feet and a 78-foot swept wingspan, the aircraft is 147 feet long and stands 34 feet high. It carries a combat crew of four and has both nuclear and nonnuclear weapons capability.

Organizations combine for efficiency

"Our number one objective is to perform extremely well on all contracts," said Peter B. Teets, vice president and general manager of the organization recently formed by combining the Strategic Systems and the Space Launch Systems divisions.

"The reputation we've gained on past projects for mission success will be maintained—even enhanced—because we're organized for success. And, we've got talented people who have nothing but success on their minds."

That performance objective is coupled with strategic planning to acquire future business, Teets explained.

"We have some time, but we need to emphasize strategic planning now to pursue the new markets that will assure future business."

Three of the division's programs have high national visibility, and one of the new programs being sought also will be in the limelight.

Titan, the ground support system for Space Shuttle, and Peacekeeper are all newsmakers. The small intercontinental ballistic missile (ICBM), while not yet firm, has already had its share of publicity.

"We need to commit ourselves to the goal of helping make the small ICBM a program," Teets said, "and we must focus our attention on winning a significant portion of the program."

As for current programs, Teets expressed confidence Peacekeeper will overcome barriers it faces and become a good project "for the nation, and for us."

Ground support system work at Vandenberg Air Force Base, CA, is progressing well and will be activated for the first launch in October 1985.

"Organization of the new division is the key to its success," Teets said. "It will bring management efficiencies, better overhead controls, and more productivity."

And that will bring with it the success we seek."

Named to key posts in the Strategic and Space Launch Systems division are: Thomas R. Callan, business operations; Warren G. Berry, engineering; Joseph P. Marcus, production operations; Joseph C. Spencer, business development; John H. Pond, personnel; Donald L. Plomondon, mission success; James W. McCown, space and defense programs; Felix J. Scheffler, Titan programs; Frederick H. Hudoff, Shuttle ground support systems; James A. Sterhardt, Peacekeeper development; John R. Adamoli, Peacekeeper flight test; Donald G. Gray, small ICBM; and John P. Murphy, Vandenberg operations.

PSP enrollment due in August 25

Eligible salaried employees are urged to file the necessary forms by August 25 to be able to participate in the company's new Performance Sharing Plan, advised Dominic N. Verrastro, manager of employee relations.

Completed forms should be sent to the employee benefits office, Mail Stop 1323, or delivered directly to that office, Eng. 125B by that deadline next week, he added, because to be eligible "you do have to re-enroll in the program."

Verrastro also noted "our benefits program was already an excellent one. These changes (in the Performance Sharing Plan, employee stock option, and changes in the health insurance program) make the total program even more comprehensive. Detailed briefings to explain those changes had been going on during the last three weeks.

Those eligible employees unable to attend a session should call the employee benefits office, ext 5609, for information.

"The cost-free employee stock program, the option to defer income taxes in the Performance Sharing Plan, and the changes to come in the health insurance program will help employees plan their financial futures and provide financial security to themselves and their families," he said.

News delayed

Production of this issue of *Martin Marietta News* was delayed one week so that it would not interfere with preparation of the air traffic control system proposal for the Federal Aviation Administration.

The regular every-other-week schedule will resume Friday, August 26.

Amid stacks of the air traffic control proposal for the Federal Aviation Administration (FAA), Sid Brockman (seated) and Phil Adams, two of the estimated 200 authors involved in the gigantic undertaking, peruse part of that effort. A full, single set of the proposal stands stacked at about 6 feet high and comprises 25 separate books. Between 80 and 100 sets were printed and put together. Some 350 or more employees have been involved in the project at one time or another since *Martin Marietta* began examining future FAA needs about three years ago. The proposal was submitted at mid-August, and the contract is expected to be awarded next February.



Ad captures magazine award

The continuing series of Martin Marietta Aerospace institutional advertisements has been judged "best recalled" in the aerospace industry.

An award was made to the company by *Aviation Week & Space Technology* magazine following an industry survey by the Harvey Research Organization, Inc., Rochester, NY

The advertisement is one of nearly 25 during the past five years designed to display the firm's capabilities and characteristics. The program is under the direction of the public relations department.

The ad, about computer systems architecture, appeared in the publication's March 21, 1983 issue. Judging was based on how well an advertisement attracted readers; how well it brought them into the message so they recalled reading it; and how well it was associated with a particular advertiser.

Verbatim comments indicated each person's attitude toward the ad; the individual's thoughts about the ad; and the person's attitude toward the company after reading the ad.

Typical responses among those surveyed:

"It's a classy, daVinci-type drawing. It's a top-notch ad. You can tell what it's about before reading it. . . . They're a top-notch organization with high technology. The drawings and the color caught my eye. I read the ad because I wanted to see what they had to say about the data center. They have very high-quality products."

Employees elected to national office

Three employees have been elected to top offices in the System Safety Society.

George B. Mumma was elected president for 1983-85. Serving with him will be Travis K. (Ken) Pethe, executive vice president, and Dean Jones, treasurer.

Mumma is a Fellow of the Society and has served as a director and operating vice president of the conference and symposium committee. He is manager of system safety for Peacekeeper.

Martin Marietta second quarter net is \$2.70 per share

Martin Marietta Corporation reported second quarter net earnings of \$56,975,000 or \$2.70 per share (\$2.50, assuming full dilution). That net compares to \$40,209,000, or \$1.13 per share, during second quarter 1982.

Net 1983 earnings at mid-year totaled \$70,786,000, or \$3.41 per share (\$3.24 assuming full dilution), which compares with \$56,015,000, or \$1.57 per share a year ago. Earnings from operations were \$39,972,000 in the 1983 quarter, and \$56,494,000 for the first half, as against \$42,236,000 and \$59,543,000 a year earlier.

Employees are caught in various reflective moods during a recent tour of "The Gallery," the new home for exhibits highlighting more than 25 years of Martin Marietta Aerospace accomplishments. Several new items have been added since "The Gallery" was opened officially last month. Summer hours are 11:45 a.m.—1:15 p.m., Monday, Wednesday, and Thursday. Special arrangements for visits at other times can be made through Public Relations, ext 7-5364. Pictured clockwise are: Ron Hunter, Stan Torgler, Dale Yashiro, and Rod Loghry.



Martin Marietta stock to split three-for-two

The Board of Directors has authorized a three-for-two split of Martin Marietta Corporation common shares, effective later this year.

The Board also established a new improved dividend rate on Martin Marietta common, to become effective with the first normal payment after the split is accomplished.

September 30, 1983 is record date for the split. New shares will be issued October 17. Fractional shares will be redeemed in cash on the basis of the closing market price on the record date (September 30).

The Board also established that the split shares will receive a fourth quarter dividend of 33 1/2 cents per share, or \$1.34 on an annualized basis. (The current annualized rate is \$1.92 per common share; the new annualized rate is equivalent to \$2.01 on a comparative basis.) The fourth

quarter common stock dividend will be paid December 30, 1983, to holders of record as of December 5.

The Board also authorized the third quarter's cash dividend payments on Martin Marietta's common and preferred issues at current rates. On Martin Marietta \$4.875 Convertible Exchangeable Preferred Stock, the quarterly cash dividend of \$1.2188 will be paid September 15, 1983 to holders of record as of August 15.

The third quarter dividend on Martin Marietta Common will be paid, before the three-for-two split, at 48 cents per share on September 30 to holders of record as of September 6.

Thomas G. Pownall, chairman and chief executive of Martin Marietta, said, "The Board's action supports our view that the Corporation's future prospects are bright and improving."



Miss Littleton of 1984, Cynthia Ann Lebel, is the daughter of two Denver employees. Her father, Thomas J. Lebel, is systems safety manager for special programs, and her mother, Marianne M. Lebel, is an executive secretary for production operations and engineering in the Strategic and Space Launch Systems division.

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Costs trimmed on external tank

Michoud division cost-reductions on the external tank project have cut more than \$73 million from the price of future Space Shuttle tanks since the program began in 1979.

According to Saul Locke, manager of productivity, the objective was to trim \$66 million from the cost of the first 54 tanks. As of June 30, 1983, more than \$73 million in cost-savings recommendations had been submitted to National Aeronautics and Space Administration (NASA) for approval. The program ended six months ahead of schedule and \$1.5 million under budget.

"Productivity is alive and well in Michoud," Locke said. "Extrapolate that amount to the Shuttle mission model and it exceeds \$400 million—a 17-to-1 return on the government's investment."

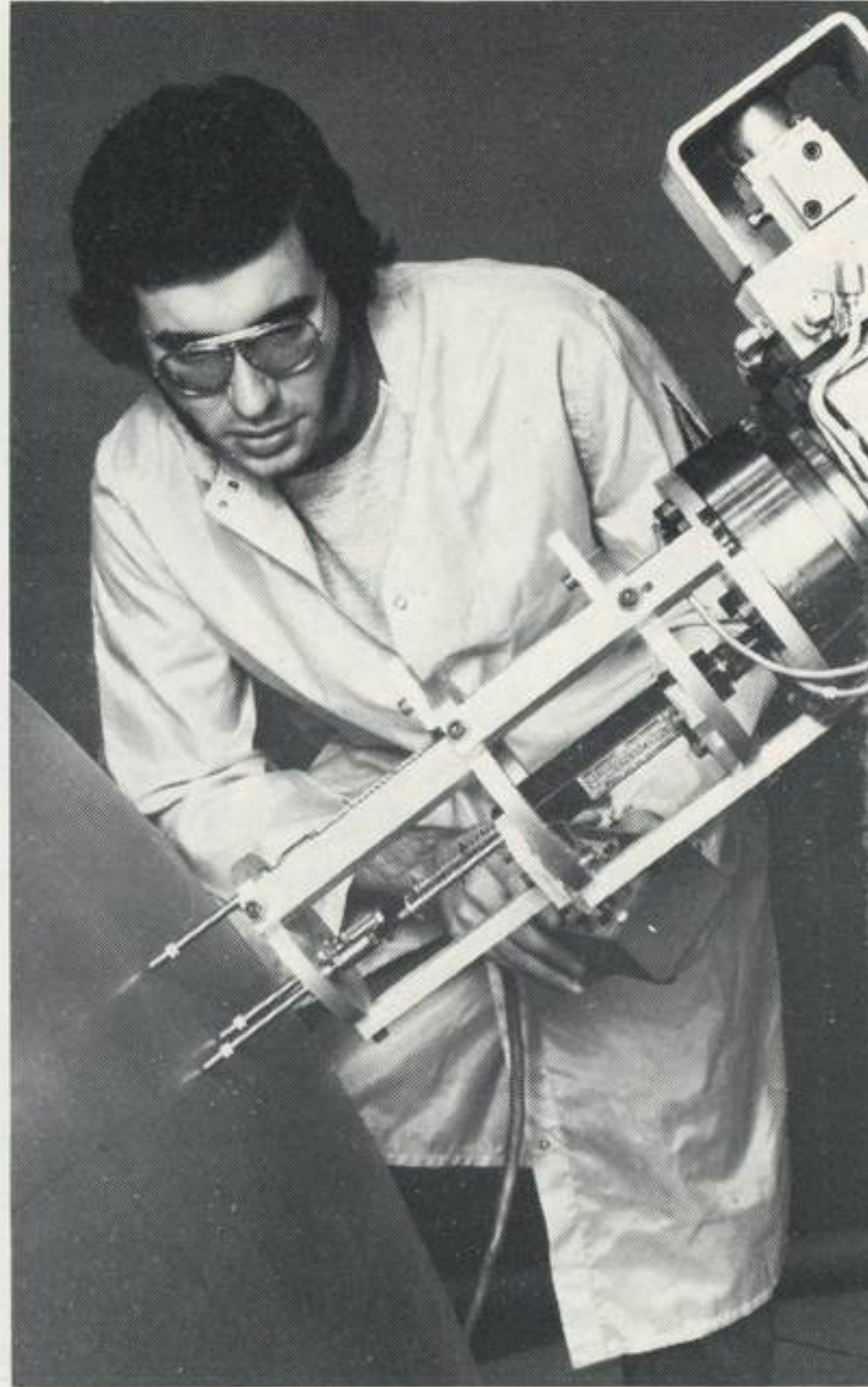
Most savings—an estimated \$55 million—came through engineering. Department goal was \$14 million.

Changes in materials and processes saved \$39 million in the thermal protection system.

Walter P. Haese, senior staff engineer for cost reduction, explained the area was so productive, because "we identified how much cost was involved in each area and then how much room there was for improvement without affecting the tank's reliability."

Despite large savings through the recommended changes, Haese stressed "changes have been very conservative. We've changed nothing that would affect mission success in any way."

One process change in superlight ablator molding was developed in cooperation with the Massachusetts Institute of Technology Productivity Center and resulted in millions of dollars saved over the first 54 Shuttle tanks.



This robot arm calculates the contoured surface of a gore panel for the Space Shuttle external tank and was developed by the Michoud division to save time, make the work safer and less tedious. Michael Garrod, laboratory technician, checks the action of the three-finger end-effector, or hand, used to determine complicated shapes of the tank skin.

Every working area on the external tank project contributed to the overall success of the program.

"It started with a commitment by top management," Locke said. "It included everything from paper savings to design changes, manufacturing processes, subcontractors, technology transfer, and how we use our tools."

Walking brings health, cash to Florida employee

It's always a profitable weekend—to the tune of \$551.30 so far—when Leo L. Karner walks his poodle, Gigi.

Karner, administrator for configuration and data management at Canaveral, has been walking beaches near his Satellite Beach, FL, home for about six years now on his doctor's advice. His broker could not have given him better advice.

First outing netted about seven dollars in change along a block-long beach access road. His discovery was made because, when walking, he keeps an eye on the ground to avoid stubbing his toe and further aggravating his pain.

Since that first walk, Karner cannot remember returning home empty-handed. Through the years, he also has found dollar bills, including a twenty, a ten, and four fives. Those he converts to more durable coins, then stashes them with others in a five-gallon water jug.

Today, Karner doesn't find as many coins as he once did. His suspicion is "fortune hunters" have heard about his finds. One elderly gentleman, in fact, appeared to be walking the same route on several occasions.

"But the exercise is still good. And it gives me time to figure my plans for the money."



Coin collectors Leo L. Karner and Gigi have picked up 9425 pennies, 1117 nickles, 1652 dimes, 942 quarters, and one half dollar in the six years of beachcombing.

Martin Marietta names PR executive director

The Corporation has announced the promotion of William B. Harwood to the post of executive director-public relations.

Thomas G. Pownall, the Corporation's chairman and chief executive officer, said Harwood will become the Corporation's principal executive for public relations and associated functions September 15. He succeeds Roy Calvin, who will retire after nearly 23 years of service, the last 15 as a corporate vice president.

Harwood, 58, has been in the Martin Marietta public relations organization since 1958, successively at Cape Canaveral, FL, at Martin Marietta Aerospace company headquarters, and at the Corporate headquarters in New York before its relocation in Maryland in 1974. He has been the corporate director of public relations since 1968. He is a native of Baltimore, a graduate of Marshall University, and for 13 years before his Martin Marietta association as an editor with the Associated Press.

Ridge Riders plan special family event

The Ridge Riders will stage an open O-Mok-See (an Indian term for various horse racing events) for all employees, their families, and friends Sunday, August 21, at the Ridge Riders arena on company property.

Events will include pole bending, key-

hole, flag, barrel, and other races. Winners will receive belt buckles and ribbons.

Registration will be at noon and events will begin at 1:00 p.m. Contact Bruce Torbeck, ext 1685 or 1675; Irene Woodzell, ext 6146; or Jack Swickard, ext 3179 or 4692.