

July 7, 1987

Number 13

Teets says reorganization will enhance growth

Formation of the Martin Marietta Astronautics Group, comprised of four new companies, "positions us for further growth and further expansion," says Peter B. Teets, president of the group and newly-named senior vice president of the Corporation. "It also provides more opportunities for our people."

The Astronautics Group was one of four groups formed July 1 in corporate streamlining designed to eliminate a layer of management and concentrate operational responsibilities in highly focused business units.

The Astronautics Group, headquartered in Denver, includes newly designated operating companies for space systems, space launch systems, and strategic systems (elements previously organized as divisions of Denver Aerospace), as well as commercial Titan systems.

Three Denver Aerospace vice presidents were promoted to presidents of the operating companies they now head within the Astronautics Group. Reporting to Teets, they are: James W. McAnally, president of Martin Marietta Space Systems; Gareth D. Flora, president of Martin Marietta Space Launch Systems; and James A. Sterhardt, president of Martin Marietta Strategic Systems. Also reporting to Teets is Richard E. Brackeen, recently appointed president of another new operating company, Martin Marietta Commercial Titan Systems.

"Each of the companies will be responsible for both its on-going business and for developing new business. They will make the decisions that will determine their economic well-being," Teets said.

He added that the decentralization is intended to help achieve some operating economies and to move decision-making to the organization most directly responsible for major elements of the Corporation's business.

In addition to the Astronautics Group, the other new groups are the Martin Marietta Electronics & Missiles Group, headquartered in Orlando; the Information Systems Group, headquartered in Bethesda; and the Materials Group, headquartered in Bethesda.

Martin Marietta Michoud Aerospace at New Orleans has been renamed Martin Marietta Manned Space Systems to reflect better its role as manufacturer of the external tank for the National Aeronautics and Space Administration's Space Shuttle and as a major design contractor on the NASA space station program.

The changes recognize the growing importance of Martin Marietta's principal lines of business. The new organizations report directly to the president of the Corporation and have been given designations more descriptive of their businesses rather than the geographic place names of predecessor organizations.

As part of the corporate organizational changes, A. Thomas Young becomes senior vice president of the Corporation and president of Electronics & Missiles Group. It includes Martin Marietta Electronic Systems and Martin Marietta Missile Systems (formerly organized as Orlando Aerospace) as well as two existing companies: Martin Marietta Aero & Naval Systems, located at Baltimore (formerly Baltimore Aerospace), and Martin Marietta Ordnance Systems, which operates the Milan Army Ammunition Plant in Tennessee.

Dan A. Peterson is president of the Information Systems Group, which includes two existing companies; Martin Marietta Data

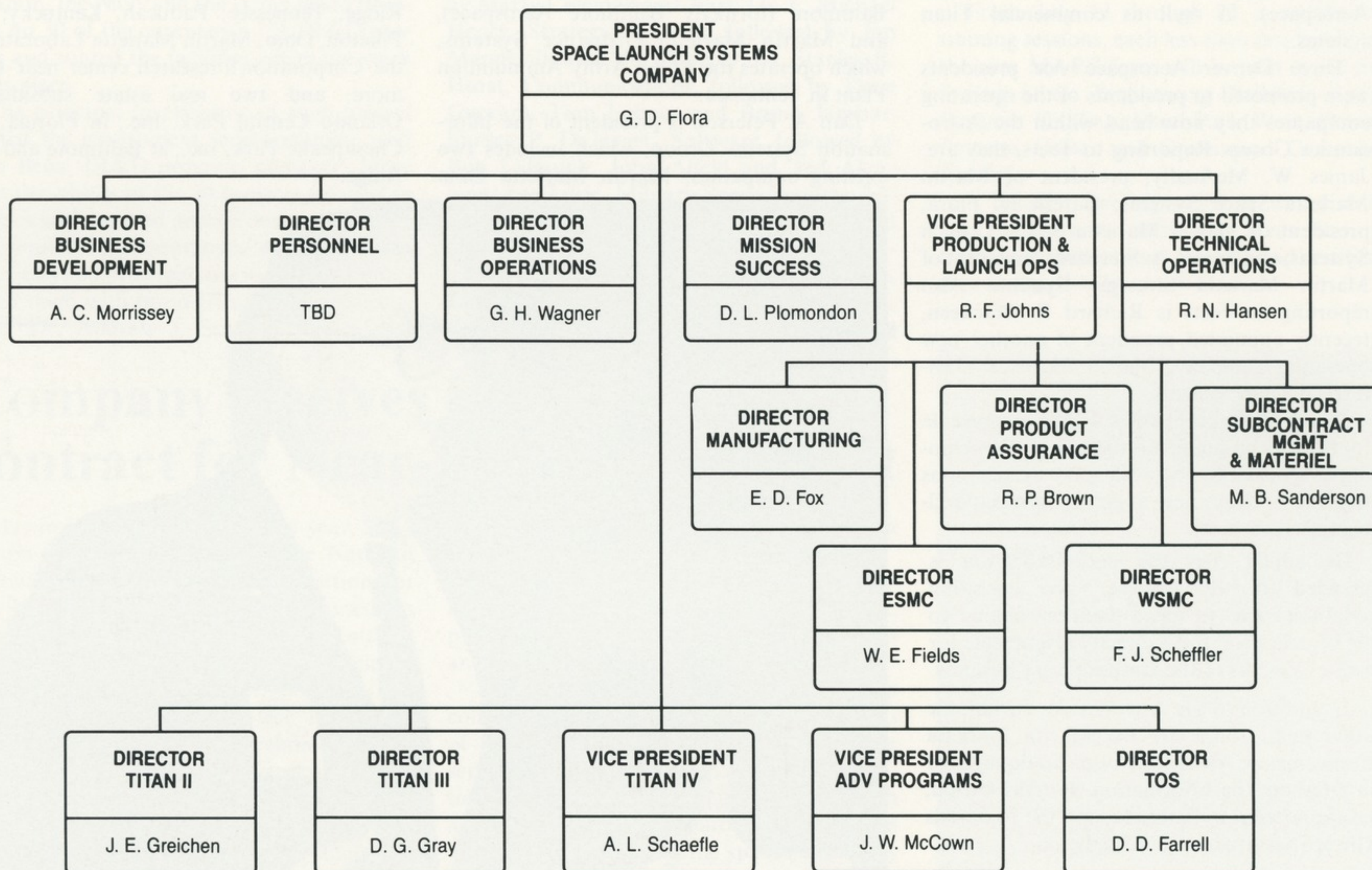
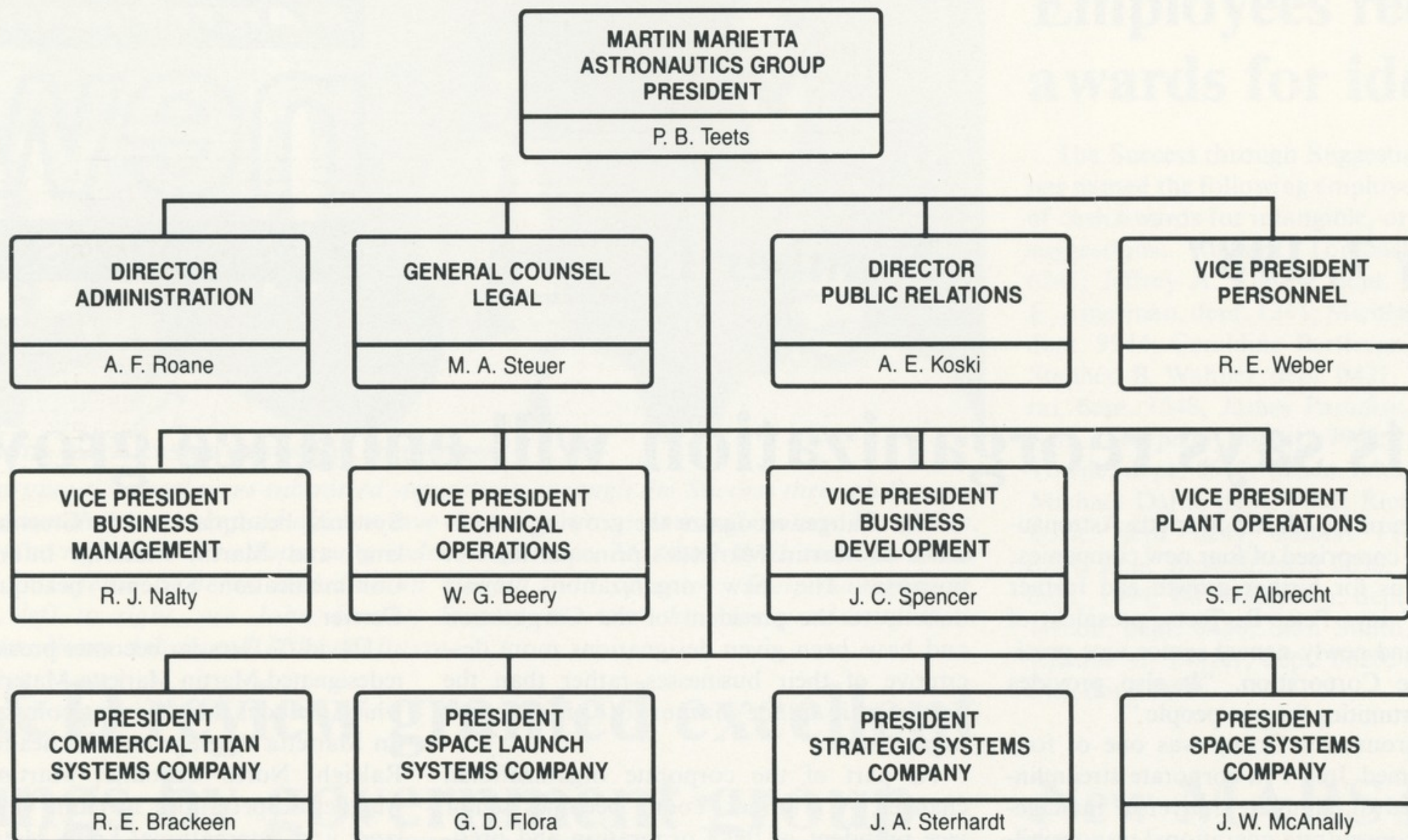
Systems, headquartered in Greenbelt, Maryland, and Martin Marietta Information & Communication Systems, headquartered at Denver.

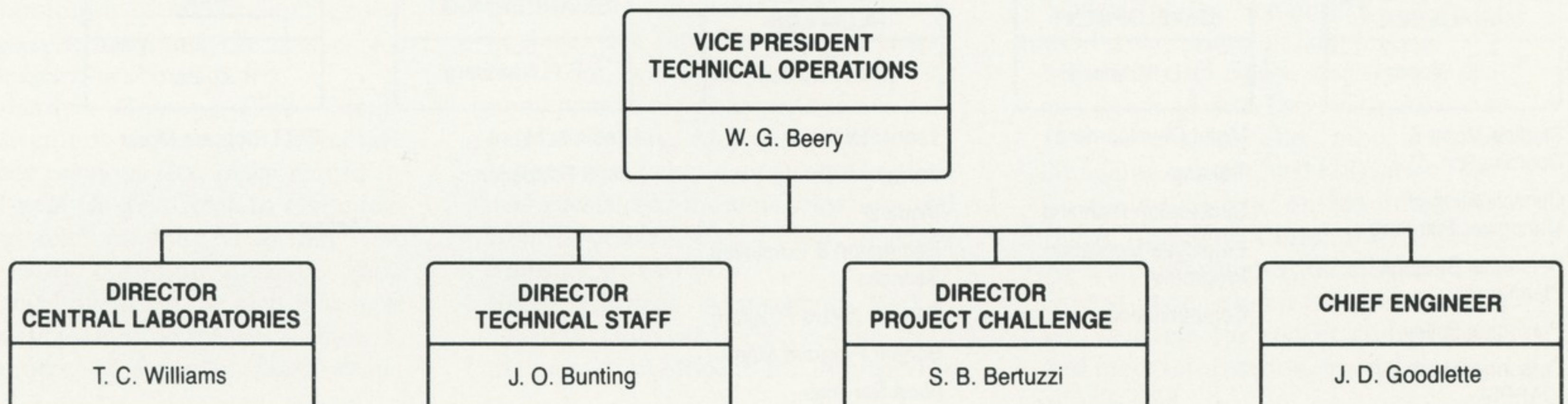
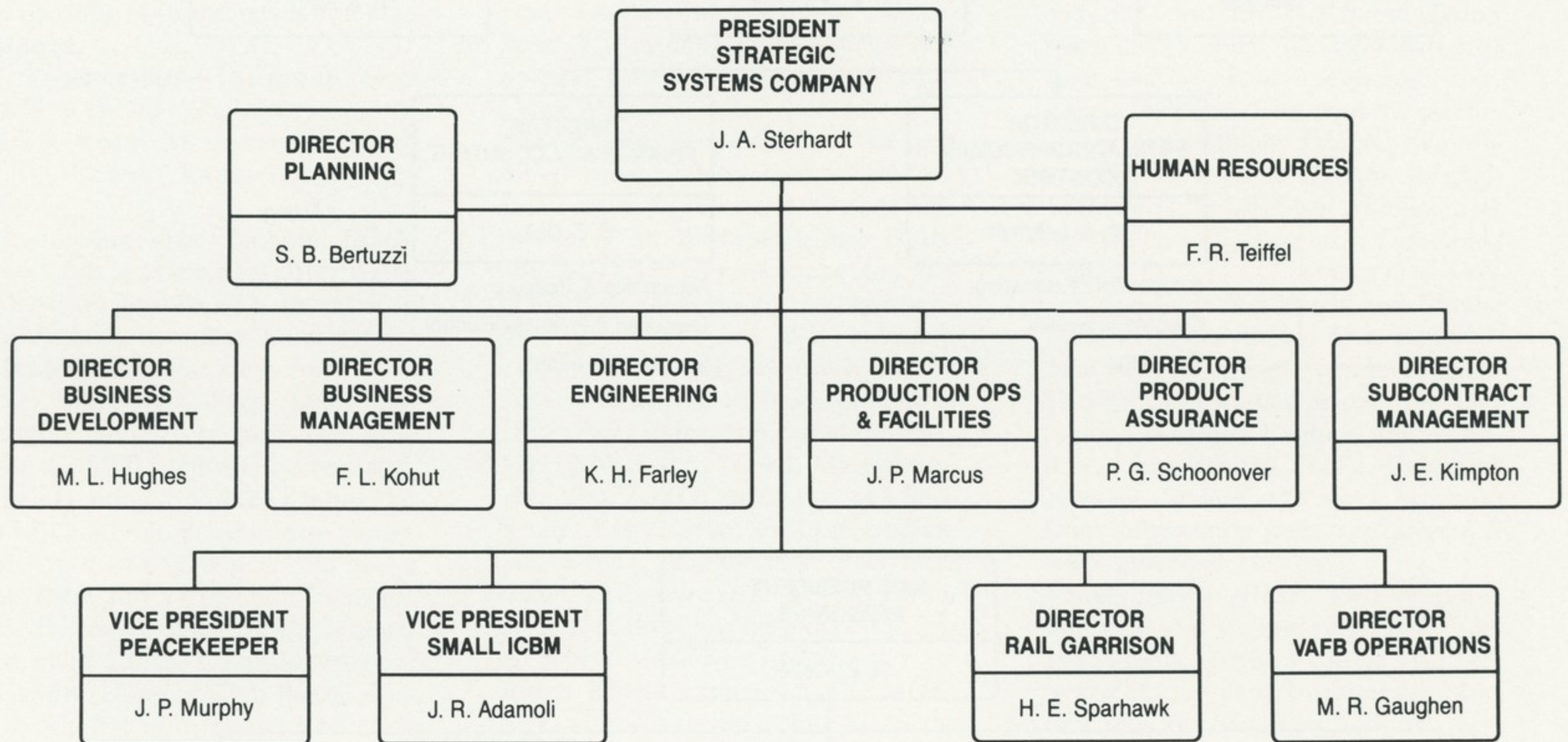
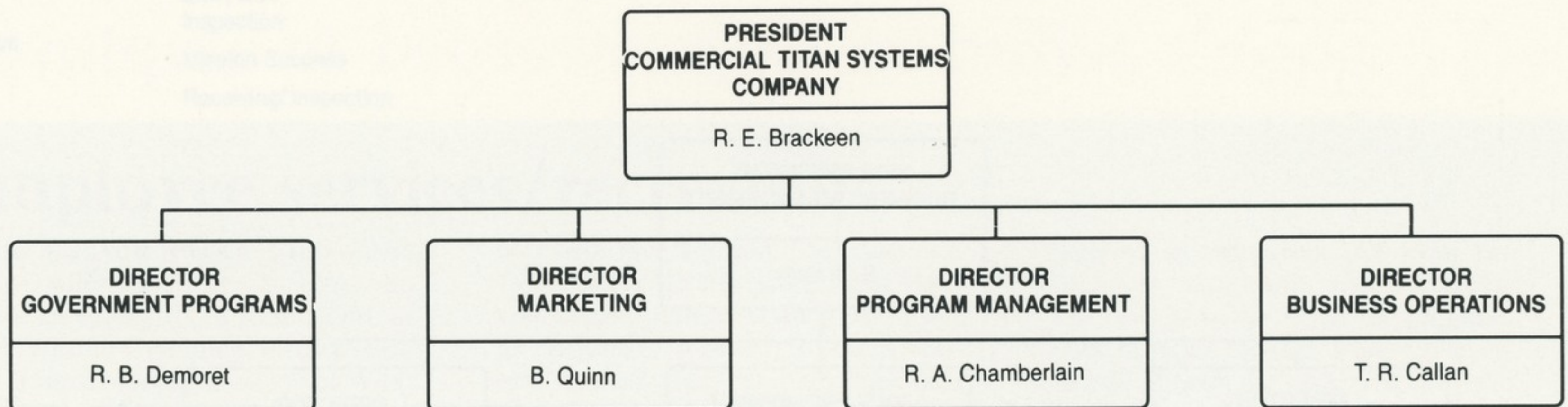
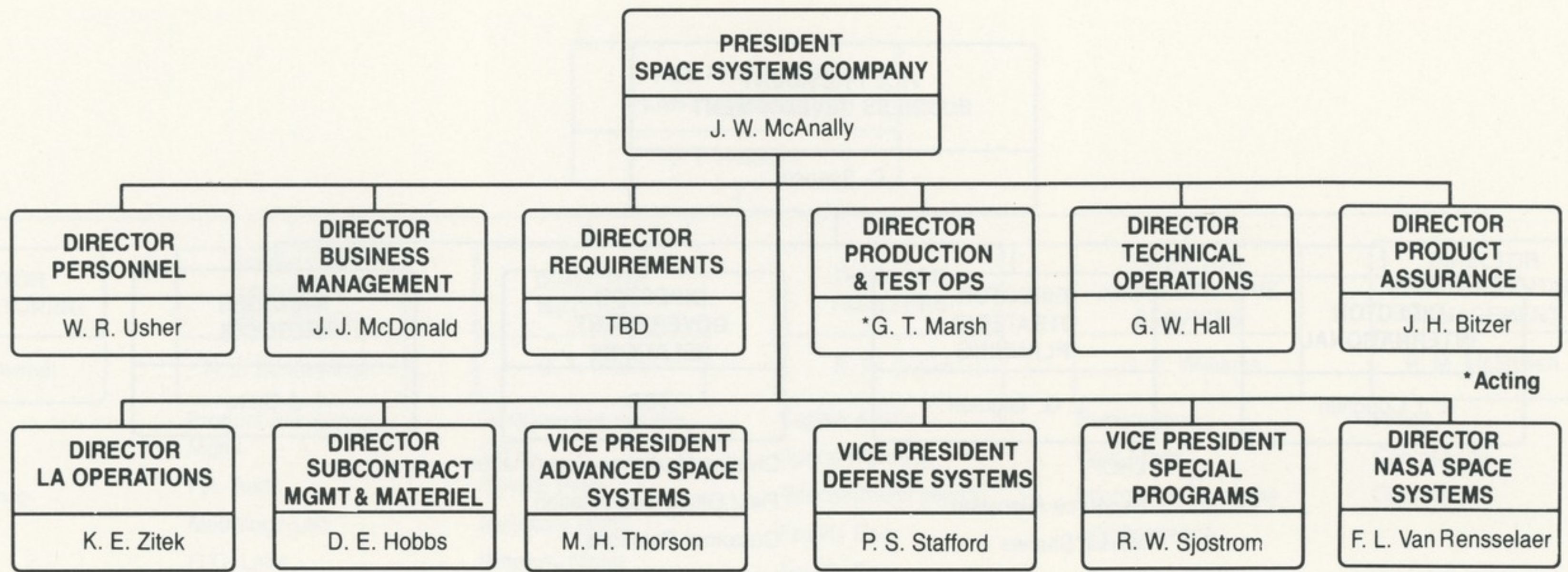
David C. Dressler becomes president of the redesignated Martin Marietta Materials Group, which includes three existing companies: Martin Marietta Aggregates, with headquarters at Raleigh, North Carolina; Martin Marietta Magnesia Specialities, at Hunt Valley, Maryland; and International Light Metals Corporation, a joint venture company at Torrance, California.

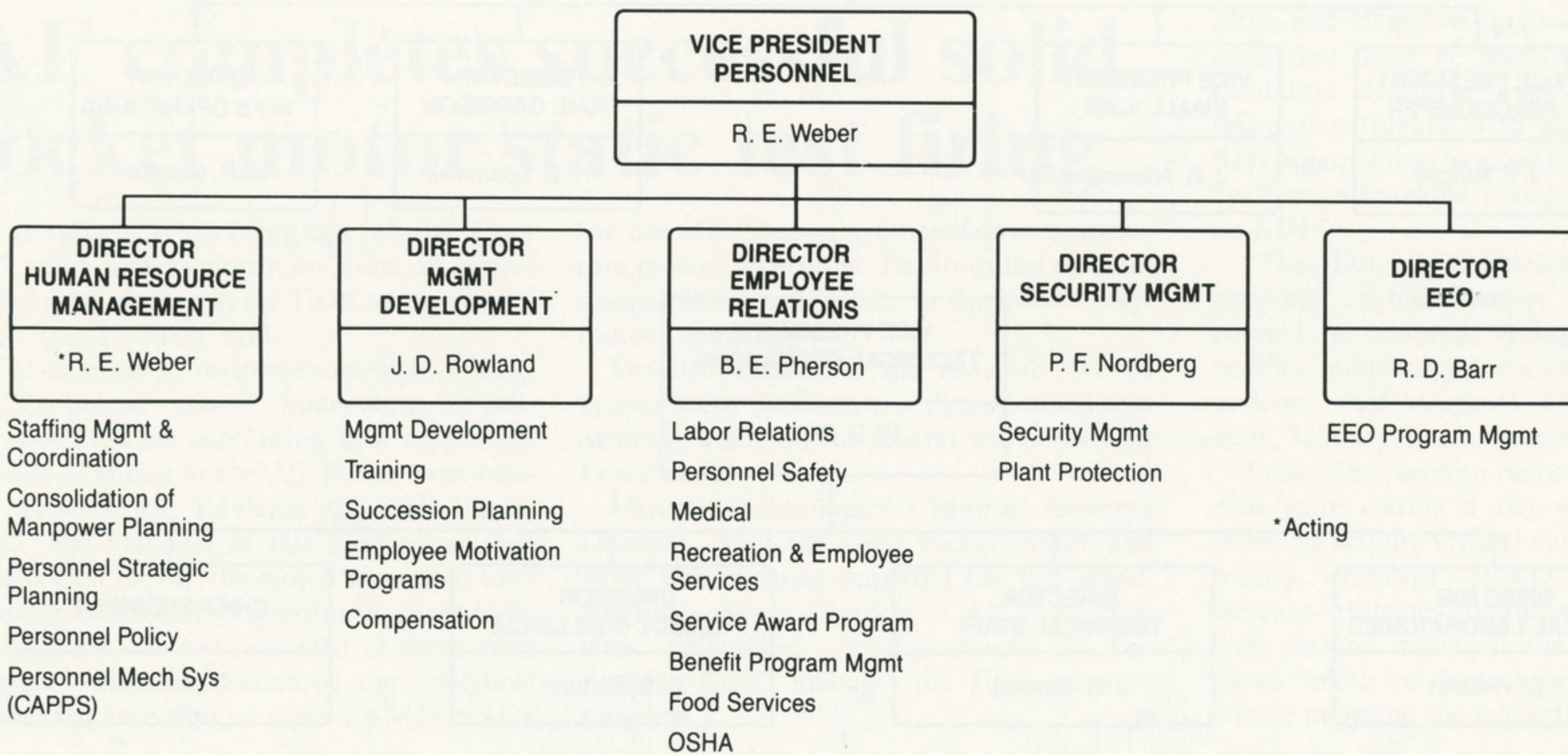
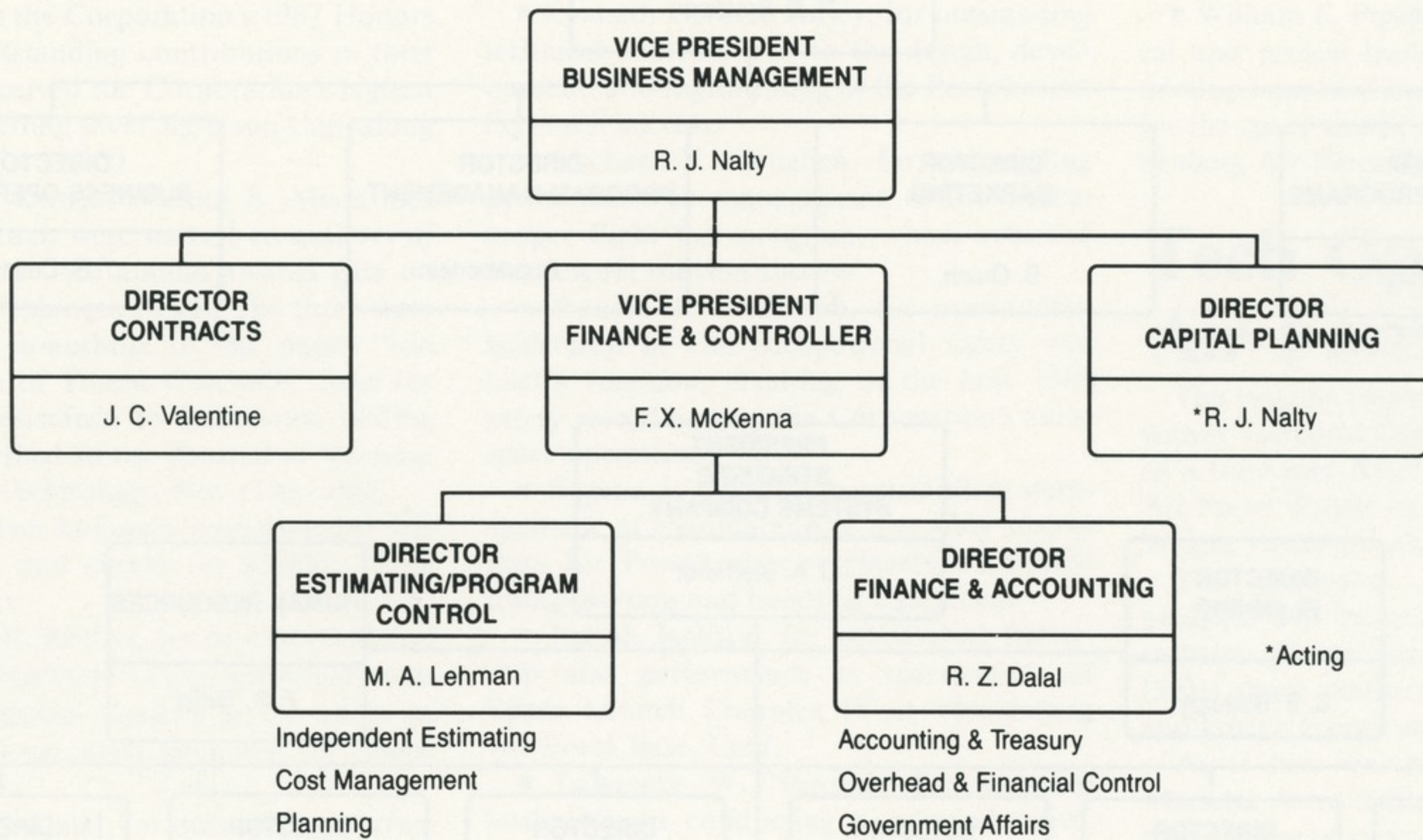
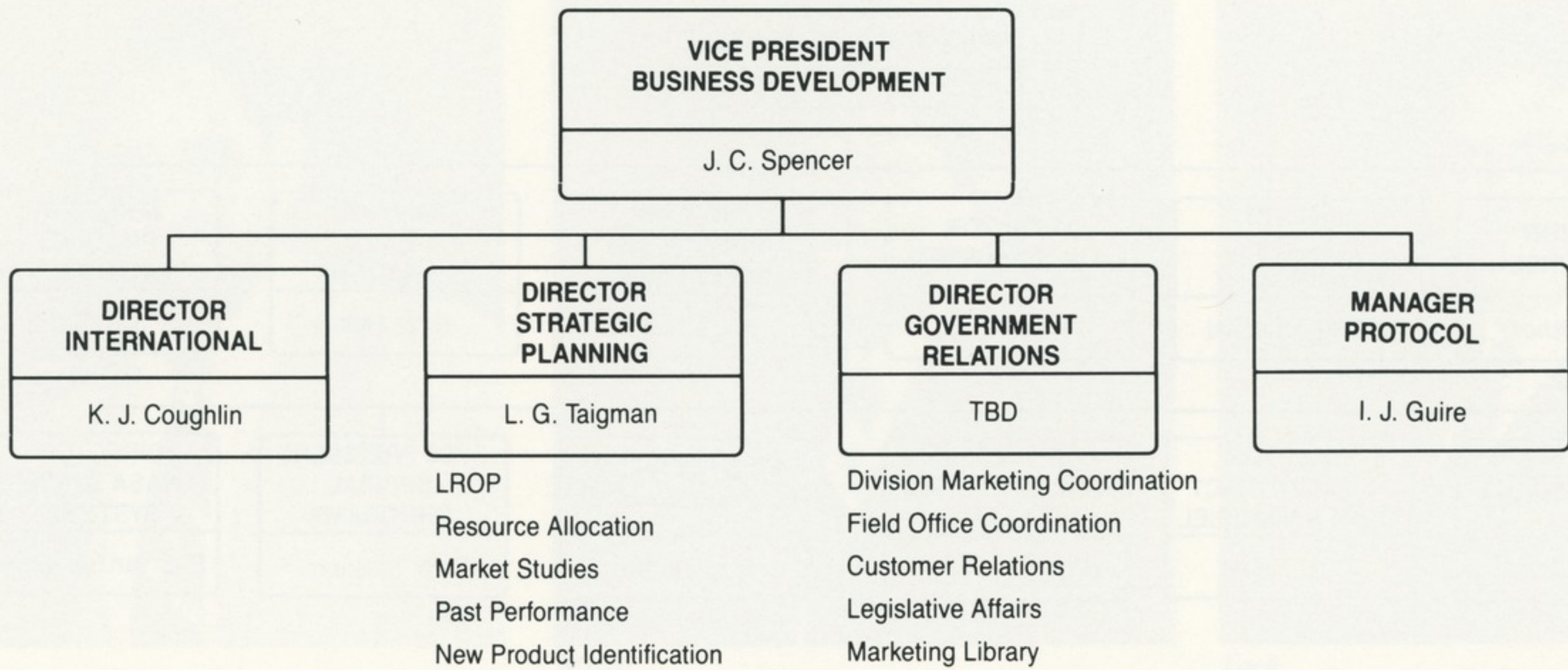
Unchanged are Martin Marietta Energy Systems, Inc., a wholly owned subsidiary, which is the management contractor for the Department of Energy's operations at Oak Ridge, Tennessee; Paducah, Kentucky; and Piketon, Ohio; Martin Marietta Laboratories, the Corporation's research center near Baltimore; and two real estate subsidiaries, Orlando Central Park, Inc., in Florida, and Chesapeake Park, Inc., at Baltimore and Oak Ridge. ■

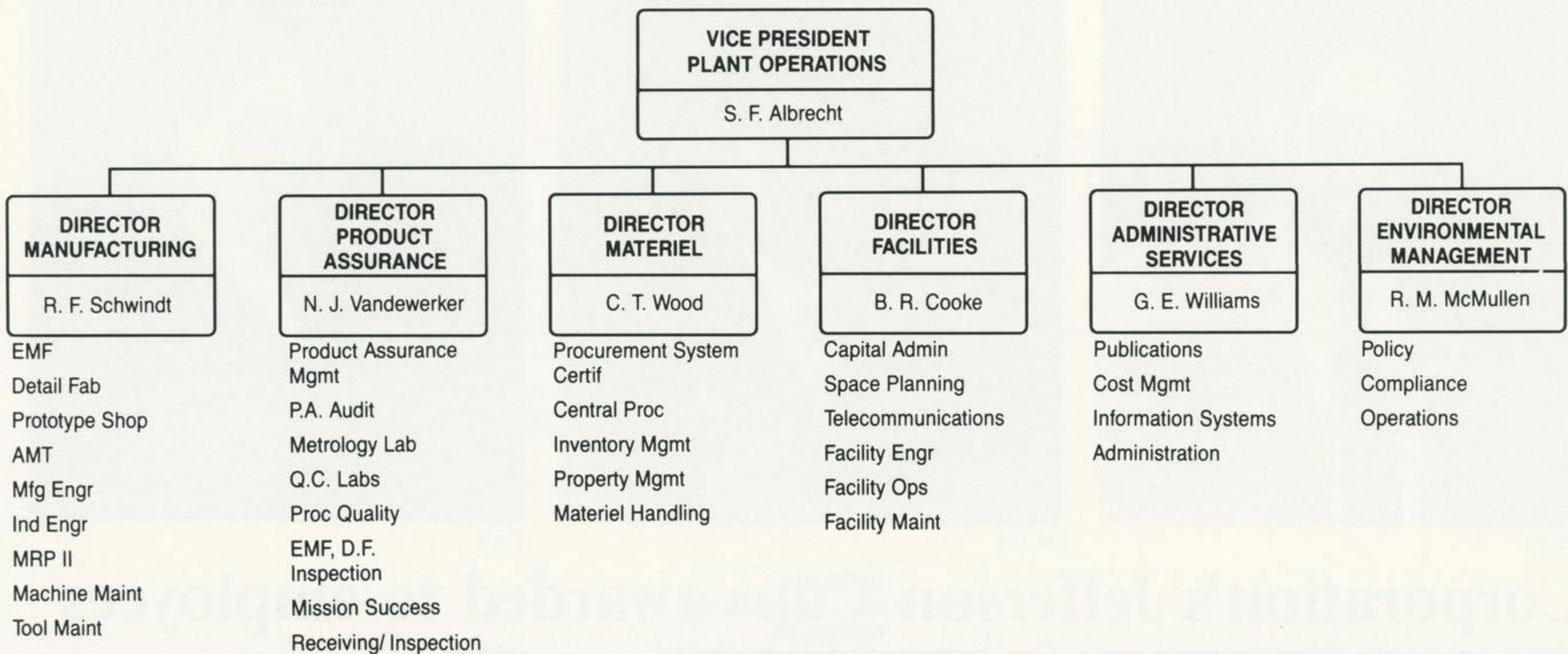


President Teets explains the reorganization to employees on July 1.









Employee services/recreation

Platte Canyon Photo Club—The group will meet at 7 p.m. on Wednesday, July 15, in Room 200C at DSC. Warren Cumming, district manager of the Colorado Division of Wildlife, will be the guest speaker.

Archery Club—The Red Rock Bowmen Archery Club will meet at 4:45 p.m. on July 14 in the recreation area clubhouse.

LSC Toastmasters—The group meets at 4:30 p.m. on Wednesdays in the Training Room Mezzanine of SCOE at LSC. Contact Kathy Dewitt, Ext. 7-0397.

Scuba Diving—The Fathom Divers Scuba Club is planning a dive trip to Cozumel on Sept. 6 - 13. Included in the \$750 cost are airfare, hotel accommodations for eight days and seven nights, four boat dives, taxes and transfers. Non-divers may pay only \$650. A \$100 deposit is required.

Skyline Hunting & Fishing Club—The club will hold hunter education classes from 7 p.m. to 9:30 p.m. on weeknights from July 14 through 18, in the DSC I second floor vending/lunch room, and 8 a.m. to 1 p.m. Saturday at the Skyline Hunting Club Range. The cost is \$7. For information, call Dick Benson, 985-3728 (home). Employees do not need to pre-register. There must be a minimum of ten students at the first class to continue the classes; all five classes must be attended.

Shepherders Running Club—Members sliced one minute and 13 seconds off their previous first place record in the 62-mile Cherry Creek to Colorado Springs relay on May 31 to take first place in the corporate division. They place third overall in the race. The new corporate team time set was six hours, 45 minutes, 48 seconds. Team mem-

bers were Phil Brunson, Luke Sanchez, Dan Trujillo, Kalani Scott, Doug Haas and Keith Golding. At the Blockbuster 5k on June 13, a benefit for the American Cancer Society, club members took first place in the open division for the second straight year. Team members were Doug Haas (11th overall), Dan Trujillo (14th overall), Kalani Scott (21st overall), Louise Hecht (79th overall), Rick Allen, John Huleatt and Doug Ward.

Belle Bonifils Blood Drive—The next blood drive will be held at DSC I, Conference Room 200C, from 9 a.m. to 3 p.m. on Wednesday and Thursday, July 8 - 9. Donors are needed particularly at this time to replenish supplies after the July 4th weekend. Employees can call the following contacts to schedule an appointment at DSC, West Point, and Tishman; Mary Ellen Nolan, Ext. 7-9984, Margie Sanchez, Ext. 7-7817. At Linpro, call Barb Riney, Ext. 1-5308, or Lori Ungren, Ext. 1-7031. Employees at other locations can schedule an appointment by calling the employee services office, Ext. 7-6605 or 7-6750.

Ridge Riders Club—Open O-MOK-SEE will be Saturday, July 11, at the Ridge Riders Arena. Registration begins at noon, and the starting time is 1 p.m. Events will include pole bending, keyhole, flag race, barrels, and a special event, with belt buckles and ribbons presented for awards. Rain date will be Sunday, August 23. This event is open to all employees, their families and guests. For more information, call Irene Woodzell, Ext. 7-5804, or Mary Smith, Ext. 1-8154.

Elitch Gardens Amusement Park—Carousel Club cards are available from the recreation office in the Engineering

Building at Waterton and from the volunteer recreation representatives. The card provides \$2 off on unlimited rides Monday through Friday. Tickets cost \$7.50 with the card. The card can be used for a \$2 discount one weekend of your choice when the regular price is \$9.95. There is also a discount of \$2.65 with the card for general admission seven days a week. The card also provides two tickets for the price of one, when purchased the day of the performance at the Elitch Theatre; two-for-one Denver Botanic Gardens through October 31; two-for-one admission at the Children's Museum, Tuesday - Friday through December 31, 1987 and discounts at Cave of the Winds, Howard Johnson's and Casa Bonita.

Jazz Festival—Employees may receive \$2 off the daily ticket price at the 23rd Annual National Ragtime and Traditional Jazz Festival, July 2 - July 5, at Heritage Square. Obtain a brochure from information racks and present it when purchasing tickets.

Family Event Ticket Distribution—Lakeside and Zephyrs tickets for the 1987 family activities will be available for pickup by department administrators only July 6 for distribution to their employees. Employees need to allow time for the tickets to reach them. Tickets for the September 12 concert will be distributed in late August.

Mile High L5 Space Society—A special Family Space Day, with astronaut Bob Overmyer and model rocket launching contest, will take place from 9 a.m. until 3 p.m. on Saturday, July 18, at Arapahoe Community College. Ages eight through adult may enter the contest. Admission is free, and families are welcome for rocket contest rules and more information, leave a message at 388-2368.



Kustas



Misra



Tack

Corporation's Jefferson Cups awarded to employees

Three Astronautics Group employees won top honors at the Corporation's 1987 Honors Night for outstanding contributions in their fields, and received the Corporation's highest award, the sterling silver Jefferson Cup, along with checks for \$3,000.

Frank M. Kustas, Mohan S. Misra and William T. Tack were named co-authors of the year at the 26th annual awards gala on June 26 in Washington D.C. The three were honored as co-authors of the paper "Ion Implantation of Ti and C in 440C Steel for Enhanced Resistance to Lubricated Sliding Wear," published in the *Journal of Vacuum Science and Technology*, Nov./Dec. 1986.

Other Denver honorees were awarded Jefferson Cups, and checks for \$1,000. Those honored were:

- William R. Britton, for development and successful integration of the technology that establishes Martin Marietta as the leader in the field of precision pointing for space applications.

- Robert Z. Dalal, for outstanding performance in overhead management and cost control, including leadership that resulted in the highly successful "Overhead-Should-

Cost" review by the U.S. Air Force.

- Kenneth Herbert Farley, for outstanding technical contributions to the design, development, and flight testing of the Peacekeeper flight test success.

- Michael F. Gaughen, for outstanding performance in management of the Peacekeeper flight test program, which achieved 100 percent mission success.

- Ronald N. Halcomb, for outstanding leadership of the occupational safety and health function, resulting in the best 1986 safety record among the Corporation's aerospace operations.

- Eugene J. Horak, for outstanding management of manufacturing assembly operations for Peacekeeper emplacements, associated transportation and handling equipment.

- Joseph Jackson, for outstanding leadership and performance in reactivation of Space Launch Complex IV at Vandenberg Air Force Base, Calif.

- Lawrence W. Norquist, for technical leadership in conducting a comprehensive, independent review of Titan flight-readiness, and for developing a program to achieve even greater reliability for Titan space launch

vehicles.

- William E. Pipes, for outstanding technical and project leadership of a program to develop improved hydrogen disposal methods for the space shuttle launch complex at Vandenberg Air Force Base, Calif. ■

Tech Ops receives Air Force contract

The systems engineering specialties section within Technical Operations has been awarded a four-year, \$5.23 million contract by the Air Force Wright Aeronautical Laboratories, Wright Patterson Air Force Base, Ohio.

The Defensive Shields Demonstration program will focus on developing materials to better protect Strategic Defense Initiative (SDI) space platforms from possible laser and kinetic energy pellets threats.

As it has for the past decade, Martin Marietta Astronautics Group is developing a broad range of survivable materials. Previous programs have focused on tailoring for satellite components and ballistic missiles that would otherwise be vulnerable to laser and nuclear threats.

The Strategic Defense Initiative program office had identified survivability as a critical issue that must be resolved to ensure that candidate defensive assets are safe from responsive threats. Top officials within the SDI organization have stated specifically that "without survivable materials, there will be no SDI."

"The Defensive Shields Demonstration program enables Denver to lead the way toward developing technology that will become mandatory for many SDI spacecraft systems," said Morris H. Thorson, vice president, Military Space Systems.

Ernie Ress, section manager, led the proposal team during a two-year pre-proposal effort to acquire critical subcontractor capabilities, leverage IR&D programs, and develop strategies for the winning proposal. Lyle Bareiss managed the proposal phase, Dean Spieth led the technical team and Matt Foster provided the marketing expertise. ■

AF completes successful solid rocket motor static test firing

The successful test firing of a full-size Titan 34D solid rocket motor on June 15 represented a major step in the Titan recovery program, the Air Force said.

The extensively instrumented 96-foot long, 522,000-pound motor underwent a full-duration (120 seconds) firing with 1.3 million pounds of thrust at the Air Force Astronautics Laboratory, Edwards Air Force Base, Calif. The first test of this kind on a large solid rocket motor, the motor was tested nozzle down to simulate the motor flight attitude.

Generally, the test consisted of three main elements. The first validated the analytical models for accepting or rejecting 34D motors

for use. The second evaluated low temperature motor operations. The third test element re-established confidence in the solid rocket motor system.

Detailed results of the test will not be known until the motor is disassembled and carefully analyzed for several weeks, the Air Force said.

United Technologies Chemical Systems Division built the solid rocket motor and Wyle Laboratories prepared the test stand. Air Force Space Division of Air Force Systems Command, headquartered in Los Angeles, Calif., manages the Titan recovery program. ■



Attention to detail pays off for Zeigler

Jerry Zeigler, production control at the Electronic Manufacturing Facility (EMF), center, receives a monetary award from Pete Schoonover, manager of central mission success, left, for identifying a major escapement associated with electronic piece parts at EMF. His rapid identification of the problem led to an effective resolution and precluded the possibility of suspect parts getting into assembly units. Also pictured is John Greenwood, chief of production control, EMF operations.

Company completes initial phase of Waterton environmental study

A year-long environmental study at Martin Marietta Astronautics Group concludes that there are only two routes by which contaminated shallow ground water is leaving the Waterton site, and the company already has installed cleanup systems in both areas.

The study was conducted under Phase I of the U.S. Environmental Protection Agency's (EPA) Superfund program at Astronautics Group. The program is intended to identify contaminated areas and, if appropriate, develop clean-up plans.

A 900-page report on the study was submitted to EPA on June 10. The study looked at the hydrogeology of the entire site, suspected sources of contamination, and the effectiveness of a ground water interceptor system and stripper plant in Filter Gulch. The study also identified other potential sources of contamination at the site.

The results of the hydrogeologic study indicated that significant potential for contamination exists only in the south-central portion of the site. In that area, most contaminant movement occurs within shallow silt and sand deposits which parallel stream valleys. The two routes by which contaminated shallow ground water are leaving the site are along Brush Creek and Filter Gulch, and the company has installed systems on both streams to intercept ground water and remove contaminants.

The report concluded that the so-called rifle range landfill—one of two suspected areas of contamination identified earlier by the EPA—is not a source of ground water contamination. Based on that finding, clean-up of the landfill was not recommended.

The report also detailed results of the investigation of the so-called inactive site, a former waste disposal site at Waterton, and ground water contamination in the factory area. Both of these areas will require further study to determine appropriate cleanup techniques.

The study determined that the ground interception and treatment system in Filter Gulch, which has operated since September 1985, is working effectively. A similar system began operation on Brush Creek this spring, but its operation has not yet been evaluated.

Thirty-four other sites that may be contaminated were identified in the study. Those sites will be investigated in the next phase of the program, although Robert McMullen, director, environmental management, said that the contamination potential at these sites is considered "minor."

In the next phase of the program, the company will investigate appropriate cleanup technologies for the inactive site and factory area and do further studies to confirm whether the 34 sites identified in Phase I actually are sources of contamination. ■

Security notes

The security department reminds employees and their visitors to wear their identification badges on the upper left portion of their outermost garment or on a plastic neckstrap.

The badge must be displayed at all times while on Martin Marietta property or within Martin Marietta leased or-owned structures. The identification portion of the badges, including the individual's name, company logo, photograph, etc., must not be obscured by pins, stickers or other attachments. The badge is not to be worn at non-Martin Marietta locations such as banks, restaurants, stores, etc.

The visitor escort-required badge is orange with black lettering. Please challenge anyone with an escort-required badge who is not accompanied by a picture-badged employee.

Subcontractors, vendors and job shoppers are issued badges for a specific period of time, not to exceed one year. Employees directing such personnel should check that their badges are current. Expired badges must be returned to the Government Security Department.

If a subcontractor's, vendor's or job shopper's contract needs to be extended or renewed, justification for a new badge must be submitted to government security. For assistance, contact the government security badging office, Ext. 7-3249 ■

AF hires firm to study environment

The U.S. Air Force has selected Engineering-Science, Inc., of Denver to conduct a remedial action planning study on Air Force-owned property at Waterton, and expects to award a \$2.6 million contract next month.

The study is a part of an Air Force-wide program to identify and investigate potential environmental concerns and to conduct remedial actions if needed.

Previous investigations on the property, operated for the Air Force by Astronautics Group, revealed the presence of contaminants at several sites. Results of these earlier investigations were made public by the Air Force in November 1986.

Under the new contract Engineering-Science will determine the nature and extent of the solvents, hydrazine (a rocket fuel), and petroleum hydrocarbon contaminants of the ground water beneath the property. Engineering-Science also will perform a risk assessment and develop and evaluate remedial alternatives. ■



Suggestions merit cash awards for employees

Three Astronautics employees submitted suggestions through the Success through Suggestions program that not only paid off, but save the corporation time and money. The group, seated, left to right, are Alex Esparza, grinder A operator, Marshall Byrd, manufacturing engineer in Defense Systems, and Damon Oswald, mill operator. Their management, standing, left to right, are John Grecht, Stanley F. Albrecht, vice president, Plant Operations, Norm Arbon and Mike McIntyre.

IR&D review granted excellent ratings by government group

Martin Marietta was rated excellent overall during the 1987 government onsite Independent Research and Development (IR&D) review.

Forty nine representatives of the Air Force, the National Aeronautics and Space Administration, the Navy and the Army heard briefings on 30 of the company's 121 IR&D projects and toured the facilities where the work takes place.

The principal investigator of each project briefed the government representatives, said Ron Bena, IR&D program manager. More than two-thirds of the 30 projects selected to be reviewed received an excellent rating.

Company representatives who presented overviews and principal investigators who followed them with summaries of their projects, were: Dr. Andrew J. Spiessbach, artificial

intelligence and robotics, followed by Tom Depkovich, Barbara Lindauer, Spiessbach and Don Herkimer; Tal Sulmeisters, Space Launch Systems, followed by Dave Gunter, Don Willis, Joe Keeley and Jim Smith; Walter G. Hart, NASA Space Systems, followed by Marty Coleman and Hart; Dr. E. Michael Henry, Strategic Systems, followed by Jim Mandeville and Mary Odefey; Dr. Stanley R. Hurst, Communications, followed by Dave Guevara, Tom Lohaus and Bruno Jambor; Shirley P. DeJaeger, Software, followed by Bob LaBaugh, John Alfeld and Ted Akerlund; Lee Little, Military Space Systems, followed by Mike McGee, Gary Skidmore, and Jim Bennett; Dale A. Fester, other Technologies, followed by Mohan Misra, Lyle Bareiss, Dean Spieth, Joe Martin, John Anderson, Barbara Bicknell and Dennis Smith. ■

Company receives five-year NASA contract for Near-Field Lab support

Martin Marietta has won a five-year, \$1.57 million support contract from the National Aeronautics and Space Administration for the Near-Field Lab. The lab is used to develop large, space-deployable antenna technology. The contract contains a clause allowing it to be extended ten years.

The near-field antenna test facility at Waterton is a four-story anechoic chamber for testing advanced antenna designs. The largest facility of its type in the world, it can test and characterize antennas up to 54 feet in diameter with ten times greater accuracy than far-field antenna.

The lab can provide close measurements indoors that are normally conducted outdoors. For example, a 15-meter hoop column antenna was tested in the Near-Field Lab in 1985 and is now at Langley Research Center, Virginia, for modification. The antenna is

scheduled to return to Martin Marietta Astronautics Group in 1988 for more tests.

"The lab will be occupied with the Magellan project until 1988," said Jim Osborne, program manager for the hoop column antenna.

The primary use of the 15-meter hoop column antenna will be to provide hundreds of beams used for long distance telephone service with high-quality voice communication. It also will have other applications, such as locating natural resources. The antenna will be deployed out of the space shuttle bay and function as a satellite. The antenna folds up in order to fit into the shuttle.

The long range goal for this project is a space shuttle scientific mission during 1990 and 1992. In that time, NASA also plans to develop a product line of large antennas. ■

Employees receive awards for ideas

The Success through Suggestions program has named the following employees recipients of cash awards for intangible, or cost-saving, suggestions: Richard Tomoaskovic, dept. 6241; Jeffrey A. Kildow, dept. 0655; Daniel E. Amerman, dept. 1311; Micheal A. Palmer, dept. 9944; Geraldine Bartleson, dept. 5020; Stephen B. Wahner, dept. 0421, M.M. Sakurai, dept. 1548, James Paradise, dept. 9627; Sam Scarpello, dept. 9940; Charles D. Towne, dept. 0510; Susan Boes, dept. 8221; Michael Dafni, dept. 9942; Richard Tomaskovic, dept. 6241; Robert Pearson, dept. 6241; Kent Westedt, dept. 0690; Kyle Corray, dept. 1394; Ed Mangilsen, dept. 0481; Rich Hruda, dept. 0480; Stan Smith, dept. 0471; Reanne C. Frazer, dept. 0620; and Wallace Pitt, dept. 9904. ■

New MARS form set for July intro

A new form for the Martin Marietta Anomaly Reporting System (MARS) will be implemented by the end of July. Instructions also will be provided.

From July 13 through 27, a number of training sessions, each less than two hours, on the new MARS form will be held in the following areas: Engineering Building, Space Support Building, SouthPark West, Denver Systems Center and Greenwood Commons Facility.

A detailed training schedule was distributed by July 6. Additional areas desiring training should contact training and certification at Ext. 7-6166 and 7-6167. ■

MARTIN MARIETTA NEWS Published by Public Relations Editor Jan P. Timmons MARTIN MARIETTA

Call Ext. 5364 with information or suggestions for articles, or call one of the following coordinators.

Business Management	Daphne R. Gillison	7-3155
Defense Systems	Norma I. Emerson	1-8089
Military Space Systems	MaryLou Motsinger	7-6461
NASA Space Systems	Austin E. Fehr	7-5775
Personnel/ Recreation	Leroy Hollins	7-6750
	Lori A. Sharp	7-6605
Production Operations	Guy R. Coombes	7-6911
Space Launch Systems	John H. LePenske	1-1400
Space Station	David J. Hughes	1-5946
Strategic Systems	Richard L. Kline	7-7475
Technical Operations	Rick Rokosz	7-6872
Canaveral Operations	Robert V. Gordon	7-9108
Vandenberg Operations	Robert L. Ruck	7-2202

Prepared and produced by the publications department
ASTRONAUTICS GROUP
P.O. BOX 179 - Denver CO

July 7, 1987