## Torrance Steel Plant Looks to Future

## Long Term Planning for Metal Homes Underway Here

Successful translation of in Torrance provides basic economy on a competitive ing the house literally "hug Rheem Manufacturing Com-material for the construction and cost basis," he said. the ground." Wide roof over-

pany's steel structural sys- program. tem to the home building "The four homes now this project is typical of protection, designs for infield could be "a significant placed before the home U. S. Steel's continuing ef-door-outdoor living, the step forward in the long building industry and pro- forts with many manufac- patio, sliding glass doors, search for an economical, spective home buyers dra-turers over the years to help have spread East from Caliesthetically appealing all-matize the benefits of steel develop sound applications. They tions for steel in the home Bennett S. in home construction. They tions for steel in the home "It is certainly possible," Chapple, Jr., administrative show what can be done by building field, Chapple point- Chapple said, "That a new vice president - commercial designing to take advan-ed out.

for U. S. Steel, said today, tage of steel's inherent "We are working con-through inexpensive, well-Geneva-U. S. Steel plant strength, fabricability and stantly," he said, "to search built, well-designed steel of the home building indus- ance."

> Two major benefits of the all-steel house are expected to be dramatized, according to Chapple.

**ECONOMICAL** 

"First," he said, "the new steel houses are expected to offer the home owner a wide series of functional benefits not usually available in other construction except at added cost.

"Second, a home designed and built in accordance with system such as Rheem's should be cost-competitive with other types of construction. The entire research and development plan is centered on time-cost reduction from preliminary design and drawings to the erection and completion of the final houses in the test "Some of the benefits ex-

pected are: 1. Better structure through the use of steel, which is a stronger, more

dimensionally stable material than the usual home construction products. 2. Inherently better fire protection.

3. Decreased sound transmission problems from room to room and from outside to

4. Uniformly better control of heat losses and cooling requirements realized through use of efficiently insulated construction. 5. Flexibility of architec-

tural design. 6. Quick occupancy by the wner because of of construction made possible with a completely engineered design. The cutting and trying usually practiced

IMPROVEMENTS

As an example of U.S. tion devices serve as high Steel's efforts to search out

hold and promotion of an Space Administration pro- With Hi-Shear precision all-steel swimming pool. It

"Within our own corpora-

Dyna-Soar manned mach 10 rected toward other industion," Chapple said, "our boost-glide research vehicle. tries including electronics, U. S. Steel Homes Division Hi-Shear rivets, now made sheet metal fabrication, ma- is producing and selling preperature resistant materials cal and agricultural. These steel structural framing still command importance in markets are located in the system. We are marketing industry use. For instance, U.S., Canada, Latin Amerthem in selected communities 400 mph NASA X-15 ica and the NATO counties in the Mid-West.

by North American Aviation, uses thousands of Hiand technical staff directs an interior drywall partition Shears in its primary structhe activities of approxi- which is made up of light mately 400 skilled employ-guage steel vertical framing Other high strength sys-ees. With George S. Wing members with the gypsum tems in current production still active as president and board bonded to it by adhe-and invented or principally Allan J. Kirk, executive vice sives. The new partition is developed by Hi-Shear enpresident, other staff memcompetitive in cost with bers include: Hi-Torque bers include W. J. Carrigan, conventional walls, dimensolts, Hi-Lok Fasteners, vice president and treasurer; slonally stable, allows rapid Blind Bolts and Blind Nuts, A. E. Anderson, vice presi-erection, and provides a

Typical uses include the re-lease of external stores from personelm anager and John aircraft, operation of under-sea devices, as time delay gen.

Chasing agent; Fred Pearce, recent years, spread through-out the country. Out of the West has come the home with the pitched roof, mak-

the ground." Wide roof over-Working with Rheem on hangs for shade and rain

theme of living will emerge out means for determining homes developed in the the efficiency and economy West to follow their sucof steel components and cessful predecessors east-steel products in all facets ward in home owner accept-



**DISTINCTIVE**—Three distinctive roof treatments have been designed for first models of the new Rheemetal home. A flat roof, as shown in this model, blends with its desert setting at Palm Springs. The structural system used in Rheem Manufacturing Company's new steel home is a direct translation of a system used successfully by its Rheemetal Building Division in con-

structing over 650 classrooms, shopping centers, restaurants, large stores and complete high schools in Southern California. Rheem is introducing the new concept in residential construction to builders and home buyers with four display homes—three in Palm Springs. and one in Palm Beach Gardens, Florida.



READY FOR EXPLOSION—Ordnance Laboratory technician at Hi-Shear Corporation prepared a powder grain in a Sieve Shaker for use in Hi-Shear developed Pow-

## Hi-Shear Marks 19 Years

National Aeronautics and crop and forest lands.

research vehicle, developed tries around the world.

Hi-Shear Corporation as mechanisms, for missile tie-in conventional home buildseen today at Torrance Mu-down and stage separation ing has been eliminated. nicipal Airport is a far cry and a variety of applications 7. Low maintenance from its first home in near-by Hermosa Beach, 19 years developed electro - combus-Founded as The Hi-Shear strength fasteners, connectimproved products and Rivet Tool Company by tors or as a means of conmethods for using steel in George S. Wing and his tainment. On command, they residential construcpartner, Allan J. Kirk, the are electrically initiated, re-tion, Chappel cited the decompany first produced Hi-leasing controlled combus-velopment of the SteelFast, Shear rivets and tools. These tion energies produced by and entirely new method for fastener products, invented combustion to mechanically applying interiors. by Wing, won immediate acpush, pull, separate, sever, the National Association of the dustry for their space, ponents or activate other Home Builders Research weight and time saving adfunctional systems. Trans- and Technology Division vantages on war-time mili- land Aircraft, a division of and the builder who origitary aricraft. Initially used on the P51C Mustang fight-broad line of dispensing equipment for use on air-combined efforts were successful in producing a costat North American Aviation and seed materials to agri-saving system that is now plants at the peak of production during World War II. growth and insect control. Today, Hi-Shear's broad-Transland has also designed steel company's activity in ened line of precision fas-tener hardware and ord-tener hardware and ord-nance products are in the application of materials to a stainless-clad steel thres-

grams as exampled by the hardware, ordnance prod- is presently developing a recent Mercury manned ucts and power equipment new system for applying space capsule shots at Cape in use on all principal mili-conventional interior panel Canaveral, the Saturn pro-gram at Huntsville, Ala-bama and the Air Force's sales efforts are being diin high strength and tem- rine transportation, chemi- fabricated homes utilizing a

Beta Bolts, Blind Press Nuts, dent-Manufacturing; Guy much smoother wall finish." Panel Fasteners, Inserts and Nash, vice president-sales, In projecting the poten-Tape Terminals.

Nash, vice president-sales, In projecting the poten-tials of the Rheemetal Build-Starting three years ago, and general counsel; Vene ing Division steel structural a rapidly expanding line of Darby, chief engineer; Ray system, Chapple pointed out electro - combustion hard-Fitting, chief-Quality Conthat features of West Coast ware has been developed. trol; Sterling Souder, pur-"sun belt" living have, in

Progress is more than a word. / Progress is schools for on-the-grow children . . . modern medical facilities for the entire community ... civic centers and centers of worship. / Progress is buildings going up, aspirations going up, too. / Progress is the steel industry of the Nineteen Sixties, as different from the steel industry of the Twenties as the futuristic car in the automobile show is from the surrey with the fringe on top. The numerous family of

steels has grown vastly in number, in composition, and in structure; and through the wonders of research the members of this remarkably useful family of materials have been almost completely revolutionized. / But, most of all, progress is people constantly on the go toward tomorrow and tomorrow and tomorrow. U.S. Steel, now in its 61st year, is proud of the part it is playing -and will continue to play-in this progress.

