



**NEW CONTRACT** — Ryan Doppler navigators are adaptable not only to current aircraft, but also to supersonic transports of the future. Shown here in an artist's sketch, the unique navigation aid is manufactured in Ryan's Torrance plant. Multi-million dollar program was announced recently by company officials.

## Torrance Ryan Plant Is Major Producer Of 'Doppler Effect' Navigational Aids

"More than 25 different types of Army and Navy aircraft and helicopters have been equipped with Ryan Electronics Doppler navigation units," officials at the Ryan facility on West Lomita Blvd., Torrance said this week. Some British aircraft along with airplanes belonging to the NATO alliance countries have also been equipped with the navigation devices. Other systems have been sold to military units in Australia and Japan.

Significantly one half of last year's \$89 million total business volume at the Ryan Aeronautical Company is now accounted for by production of Ryan Electronics navigation systems at the Torrance plant. In past years electronics work for the veteran aircraft company accounted for approximately 5 percent of annual volume, but with the demonstrated success of Ryan's Doppler radar navigation equipment and the award of major contracts, the total volume rose to approximately 30 percent in fiscal 1960 and 50 percent in the year ended October 31, 1961.

The Ryan systems manufactured at Torrance are designed and developed at Ryan Electronics' engineering and marketing facility at Kearny Mesa in San Diego.

At Torrance, a well-

planned and implemented combination of proficient personnel, obtained from the Torrance area, modern advanced production facilities, and a carefully integrated organization has achieved and maintained Ryan's prominence in the field of Doppler navigation.

The Torrance facility com-

prises an area of nearly 300,000 square feet, with a total plant force currently standing at 650. Ryan officials called Torrance as an excellent location for an electronics manufacturing facility, pointing to the area's excellent skilled labor market as a strong factor insuring Ryan's continued interest in the area.

## Torrance's 'Finest' Have Made 'Outstanding' Record

Paced by Police Chief Percy G. Bennett, Torrance's police department continues to discourage crimes.

Two years ago the City Council presented him with a plaque for maintaining a low crime rate with minimum personnel.

One reason for the effective functioning of the department is that Bennett knows all phases of his work and therefore can "speak the language of every member of the department." He started as a patrolman in 1932 and went up the ladder the hard way.

Discussing the future of Torrance and its expansion, he admitted that, with the increased problems that would arise, his present staff may not be able to cope with it.

"Even if we had the most effective staff in Southern California, we couldn't function well while undermanned," Bennett said.

"With more industries there will be more people driving to work. This creates a traffic snarl if we don't have the manpower in our traffic department to handle it," Bennett continued.

"Then there is the commercial area aspect. At the rate the Del Amo Shopping Center is growing, more rate problems pop up. One will be the late hours. Others will include burglary holdups, larceny, and petty thefts," Bennett explained.

Personnel of the police department is a little over

100 members. Besides Bennett, there is the assistant chief, M.H. Porter, who in the absence of Bennett assumes all the duties, responsibilities and authority of the latter's office.

One of the new improvements of the traffic department is the radar car. It records the speed of any car. It also determines the safe speed, so speed limits can be reduced or increased for better traffic flow.

Despite heavy duties of the officers, they find time to participate in activities that create good will within the department. Many trophies have been won in contests they enter.

About thirty members have formed the mounted police group which takes part in all major parades and are on call for emergencies. They buy and maintain their equipment, horses, trailers, and trucks.

A supplementary unit of the police department is the Police Reserves, composed of close to twenty members who are on duty with regular police officers. They ride in patrol cars, walk beats and have the same duties as patrol officers. They also buy their own uniforms and equipment.

Another project of the department is the Torrance Officers Association, which sponsors five car clubs.

Still another achievement is the pistol team which competes with groups from other cities. It is mandatory for each officer to qualify each month.



**SUCCESS STORY** — Charles Cake, owner and manager of the Jewell Land Co., 21188 Hawthorne Blvd., is easily the busiest man in Torrance. A resident of the area for more than 40 years, he has established an unequalled reputation as a developer. His achievements include the establishment of shopping centers and apartment units. His contributions to the community are outstanding and many.

## Torrance's Story Is California History

It all started in 1784.

Shortly before the establishment of the United States as a nation, the area now saturated with booming communities first saw signs of civilization.

A lone adobe house was constructed by Juan Jose Dominguez on his estate known as Rancho San Pedro.

From this simple beginning rose the city of Torrance, Southern California's planned industrial city.

In 1911, Jared S. Torrance, for whom Torrance is named, bought 3500 acres from Dominguez holdings and established a community which was to grow into one of the most diversified cities in America.

Torrance, often referred to as "the perfectly balanced community," maintains an equilibrium in its industry, agriculture, commerce and residential areas.

Interest in the area as an industrial center began in

1912 with the establishment of the Union Tool Company, now the National Supply Company.

Other industries saw the advantages of setting up shop in the area and have since made Torrance one of the prime manufacturing centers of Southern California.

Strategic location of the city, located near the Los Angeles-Long Beach Harbor is one of the major factors which brought Torrance prominence in the Southland.

It all started in 1784. "Grandpa Dominguez" would beam with pride if permitted to stand high in Hollywood Riviera section of Torrance and scan the city of Torrance below.

The old man would be proud to see how his lone adobe house was the seed which blossomed into a community with a population of 110,000 and an industry population of more than 175.



**SPACE AGE FUTURE**—Ryan Aircraft's Torrance facility has geared production toward aviation advances and the space frontier. Unique projects developed by the company have opened new fields to the industry. Local

facility provides employment for hundreds of technicians and specialized workers living in the city and makes a major contribution to the future of Torrance and of the nation.

## Dow Chemical Conducts Huge Scholarship Program

More than 200 students in 65 universities and colleges from coast to coast are receiving scholarships and fellowships during the 1961-62 academic year through the aid-to-education program of The Dow Chemical Company.

Dr. David H. Morgan, director of College Relations for Dow, said these students represent about 100 departments—primarily chemical engineering, chemistry and metallurgy—within the institutions. The funds are allocated to the institutions and faculty committees at the schools select the recipients.

Scholarships and fellowships ranging from \$500 to \$3,500 per individual are the principal features of a program that constitutes expenditures from Dow of more than one million dollars annually.

Another feature of the aid-to-education program is the matching grant plan established in 1957 in which the company matches a maximum of \$100 per year per employee to four-year institutions of higher learning in the United States, with a maximum of \$300 per employee to three or more schools.

Between June 1, 1960, and May 31, 1961, a total of 1,299 contributions from employees were matched for a total of \$40,000. The number of contributors increased 12 per cent over the preceding year and the funds matched

increased 18 per cent.

Matching grant checks have been sent to 337 institutions in 45 states and Washington, D.C., mostly for unre-

stricted use. A company also can provide aid - to - education in forms other than dollars. At Dow, several thousand dol-

lars' worth of products and technical equipment are contributed annually to schools as part of the aid-to-education program.

**CONGRATULATIONS TO THE TORRANCE COMMUNITY ON ITS GROWTH AND PROSPERITY**



We have been serving the people of Torrance for the past 26 years in the field of refuse and waste disposal and will continue to do so as an independent operator.



**George M. Green**

FRontier 2-2348



Ryan Electronics is on 40-acre site adjacent to Torrance airport

## RYAN ELECTRONICS - WORLD LEADER IN DOPPLER NAVIGATION EQUIPMENT

Ryan Electronics, world leader in the design and manufacture of precision Doppler navigation systems, last year produced more than \$40 million worth of Ryan® equipment in Torrance.

The U.S. Navy, U.S. Army, the United Kingdom and Netherlands navies, Australia, France and Japan number among Ryan Electronics customers. In all, more than 25 types of free world aircraft, including helicopters, depend on Ryan navigation equipment.

The self-contained Ryanav systems provide accurate, continuous, automatic navigation and hovering anywhere in the world, over any terrain, under all weather conditions, without reliance upon ground radar or radio aids. The systems work equally well in helicopters flying at 50 miles per hour or supersonic jets flying at more than three times the speed of sound.

The Ryan Electronics manufacturing facility adjacent to the Torrance airport, is situated on a 40-acre site, with approximately 300,000 square feet of working area. The facility is geared for high volume, high quality production of complex electronic components and systems.



Electronic assembler completes a complex harness component, a basic unit of Ryanav navigation systems.



Ryan navigation equipment provides pinpoint hovering capability for Navy helicopters in anti-submarine operations.

**RYAN ELECTRONICS**

2750 West Lomita Blvd. Torrance, California

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