

## Jumbo Tank Cars Riding On The Rails

A new fleet of jumbo railroad tank cars hit the rails this week as Linde Company, Division of Union Carbide Corporation, began regularly scheduled coast-to-coast shipment of liquid hydrogen.

Although outwardly similar to the popular jumbo cars used for LPG and bulk chemicals, Linde's new rolling stock features unique inner construction—a double-walled container insulated by vacuum-Super Insulation to protect its ultra-cold liquid hydrogen cargo which is 423 degrees below zero.

Coast-to-coast shipping of liquid hydrogen is a part of Linde's \$31-million supply contract awarded by National Aeronautics and Space Administration last December.

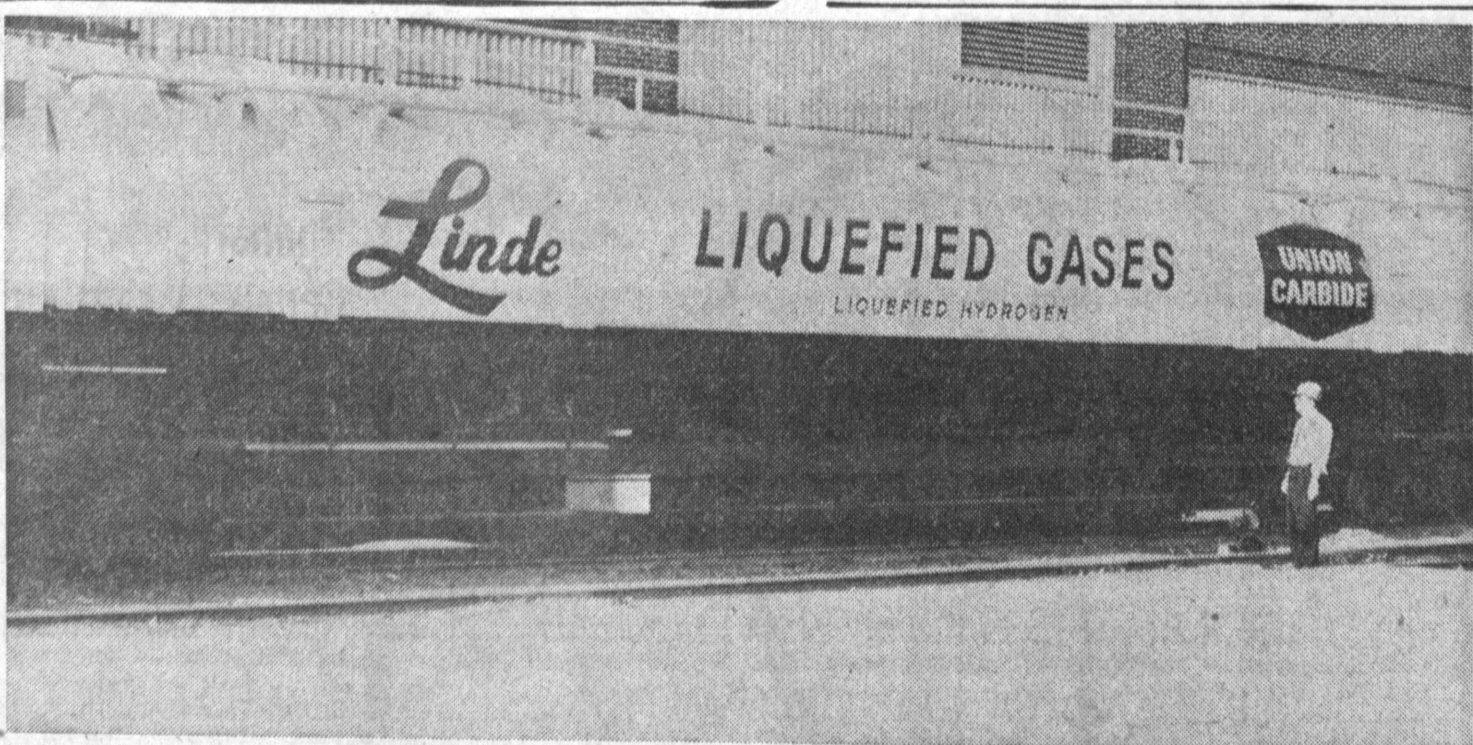
The company has been operating a 6-ton-per-day liquid hydrogen plant at Torrance, for more than a year, and is currently building a 26-ton-per-day facility at Ontario, to meet growing supply requirements.

Linde's transport fleet will keep West Coast rocket development centers supplied with liquid hydrogen from the government's production facility at West Palm Beach, Florida, until the Ontario installation is put into operation in mid-'62.

Through a combination of highly specialized engineering skills—Linde's cryogenic engineering know-how and General American Transportation Corporation's extensive experience in tank car design and construction—the first liquid hydrogen jumbo was placed in service less than eight months after planning began.

General American fabricated the outer shell and underframe at its Sharon, Pennsylvania, plant; inner tank construction, insulation, final assembly and leak testing were performed at Linde's Tonawanda, New York, factory.

Each of the six jumbo cars added to Linde's transport fleet has a capacity of 28,300 gallons of liquid hydrogen. Efficiency of the Super Insulation is such that the six and a half day cross-country haul can be made with an evaporation loss of only about 0.3 per cent of capacity per



NEWEST ROLLING STOCK in Linde Company's transport fleet are jumbo tank cars now making cross-country shipments of liquid hydrogen to West Coast rocket development projects.

Engineered and built by Linde, these cars utilize Super Insulation to protect the ultra-cold liquid hydrogen cargo (423 degrees below zero F.) against evaporation loss in transit.

## Audio-Visual Education Class Offered at UCLA Extension

Instruction in audio-visual methods of education, designed to acquaint teachers with all types of instruction media in the field, will be offered this fall in nine Southern California communities through UCLA Extension.

All courses, including three sections at the University Extension Center, 813 S. Hill St., and in South Bay, Norwalk, Los Angeles, (MA 3-6123) and in South Bay, Norwalk, Downey, Bellflower, Orange County, San Gabriel Valley, UCLA, start during the week of Sept. 18.

For South Bay residents Wednesday classes begin Sept. 20 from 7 to 9:30 p.m. in Room 60 of Mira Costa High School, 701 South Peck Avenue, Manhattan Beach. Charles J. Lang is the instructor.

Bulletins listing complete day.

Evaporated gas is not vented enroute, but is retained in the car by allowing the pressure to increase several pounds per square inch above atmospheric pressure.

If delays make venting necessary, a specially designed automatic mixer safely discharges the small quantity of vented hydrogen gas as a non-flammable air-hydrogen mixture.

In addition to the new jumbo tank cars, Linde will utilize 34 standard, 9500-gallon tank cars converted from liquid oxygen-nitrate service and twelve 7800-gallon truck trailers specially designed for liquid hydrogen service.

The latter are used for regular deliveries from Linde's Torrance plant and will also be used for distributing liquid hydrogen from the jumbo tank cars at the end of their cross-country run.

## Used Clothing Wanted for Needy

A drive to replenish depleted stocks of fall and winter clothing for needy southland families is being conducted by the St. Vincent de Paul Society, Msgr. James E. Dolan, administrator, said recently.

All types and sizes of clothing for men, women and children are needed, especially warm suits, dresses, topcoats, sweaters, rain coats, undergarments, shoes and stock-

ings, Msgr. Dolan said.

Blankets, bedclothes and all types of home furnishings also are wanted.

For a St. Vincent de Paul truck call Madison 7-8145, Los Angeles; Terminal 4-4533 Harbor area and Orange County; POlar 3-5174, San Fernando Valley; SYcamore 9-1127, San Gabriel Valley, or HEMlock 7-2330, Long Beach area.

## CONSOLIDATION

Supervisor Kenneth Hahn urged this week on the Board of Supervisors that there be a new approach to the consolidation of the existing 107 independent school districts in Los Angeles County. Hahn stated that the County Superintendent of

Schools, Dr. C. C. Trilling-

ham, and the County Board of Education will review for the Board of Supervisors the policy of unification of school districts and encourage a speed-up in this efficiency move.

Use classified ads for quick results. Phone DA 5-1515.

## Beauty Chairman

Mrs. Austin McNeil, owner of Lenore's Florist, has been officially selected as Chairman for Beautification for the City of Redondo Beach, according to an announcement made this week by Mayor William F. Czuleger.

Mrs. McNeil, a director of the Redondo Beach Chamber of Commerce has been active for many years in community affairs, and has just recently been selected as decorating chairman of the Redondo Beach Tournament of Roses Entry in the January parade.

Use classified ads for quick results. Phone DA 5-1515.

## JUST FOOD, WATER

Chrysanthemums have reached the stage when nothing is needed but food and water. We assume you've already staked your Mums and pinching should have been stopped by the middle of July. Use liquid fish on them until the buds begin to show color and then stop feeding entirely. To feed as the plants approach bloom diminishes the intensity of bloom color. Use classified. Call DA 5-1515

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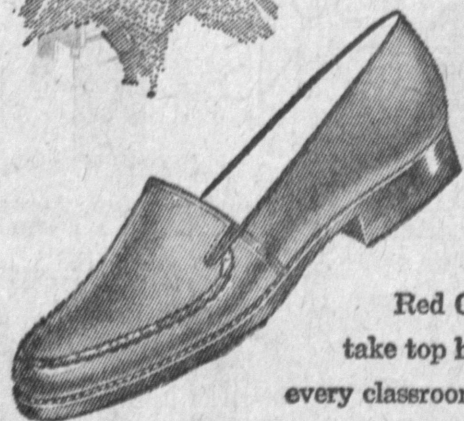


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