Installations For Atom Need Extra Thick Shielding

Seattle, Wash. — (UPI) — Windows for atomic installations being produced at Penberthy Instrument Co. in Seattle are six feet thick and weigh as much as 14,000 pounds. Large cranes are required to put them in place.

The purpose of heavyweight windows is to permit scientists to take a close look at intensely radioactive materials without danger to themselves.

Since 1949, the year Larry Penberthy, founder of the company, originated high-density lead glass, his firm has built hundreds of windows for atomic laboratories throughout the free world. Most of the company's production is for the U. S. Atomic Energy commission or its prime contractors, although new high-voltage X-ray machines being used in cancer therapy also require such windows to shield the operators.

High-density glass is described by Penberthy as "a solution of lead oxide in molten lead silicate." The result is a clear transparent glass that is 75 per cent lead by weight.

Highly Efficient

With so much lead in it, a one-cubic-foot block weighs 400 pounds.

The materials that go into the glass are silica and lead oxide so highly refined that impurities are only a few parts per million.

A 14,000-pound window is made up of individual slabs weighing 18,000 pounds each. Once poured, a chunk of glass this size must be cooled with meticulous care over a period of two weeks to prevent cracking.

Surfaces of the individual slabs are ground and polished to optical quality, since scientists often use telescopes and telephoto cameras in observing and taking pictures of radioactive materials.

How efficient a barrier to radiation is a six-foot-thick high-density window?

Penberthy has figured out that if one trillion high-energy gamma rays were to strike one side of such a window, only one would emerge from the other side.

"And that one remaining gamma ray would be in a battered and weakened condition," he added.

Police Roundup Diehard Stalinists

Belgrade — (UPI) — A police roundup of diehard Stalinists as a result of fresh Soviet-Yugoslav tension has netted about 50 persons, including a former Army colonel and a onetime member of President Tito's cabinet, authoritative sources said Saturday.

Security police maintained silence. But the sources said in addition to the 50 Stalinists who have been seized, another "dozen or so" have disappeared from their homes within the last two weeks and either have gone underground or slipped into neighboring Soviet satellite countries.

Sources said grounds for the arrests were attempts by the Stalinists to spread alarm over recent deterioration of relations with the Kremlin.

Public Hearings Set To Draft New Laws

Salem—(UPI) — A public hearing will be held in Portland June 11 with a view to drafting new regulations governing employment of women and minors in industry.

The hearing, called by the State Wage and Hour commission, will consider a proposal to raise the present wage floor from 65 cents to $1.

Other standards that will be discussed include the present 44-hour maximum week, overtime pay, weight lifting, sanitaion, safety and general health protection.

Labor Commissioner Norman O. Nilsen said any recommendations made at the meeting would be considered.

Calcutta, India—(UPI)—At least 52 persons were reported killed Saturday when torrential rains loosened the side of a mountain and sent it roaring onto a number of villages along the Airi river.

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SAVE SAFEWAY JUNE JAMBOREE OF VALUES

Real Mayonnaise
Best Foods—the Whole Egg Mayonnaise
Reg. 75c Qt. Jar 59¢

Finest Evaported
Cherub Milk
Reg. 3/44c—Case 48 $5.95
8 Tall Cans Case 48 $1.00

Save 25c — CINCH
Cake Mixes
Your choice of white, yellow, spice or chocolate.
Dozen $2.39
5 pkgs. $1.00

Peanut Butter
Popular Beverly Brand—Creamy or Chunk
Reg. 57c 18-Oz. Jars 49¢

Liquid Detergent Gentle Pink Scamper 22-Oz. Can 59c
Peas, Beans, Corn Reg. 2 for 27c Gardenside 9 303 Cans $1.00
Flour Kitchen Craft Reg. 4.59 50-lb. bag $3.75 Reg. 2.39 25-lb. bag $1.89 Reg. $1.15 10-Lb. Bag 95c
Fruit Cocktail Town House Case 24 $5.09 4 303 cans 85c
Cut Asparagus Gardenside Case 24 $3.05 7 300 cans 89c
Cooked Beans Taste Tells Limas, Pork & Beans, Kidney, Mexican, or Pinto 9 300 cans $1.00

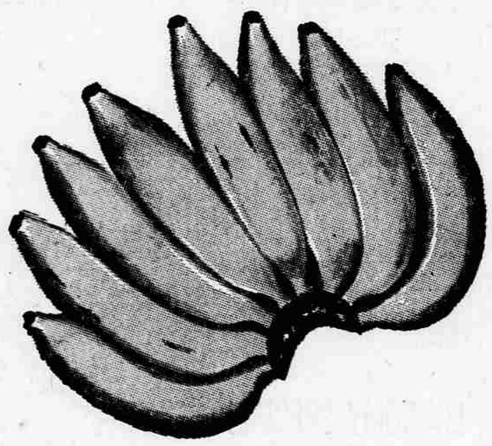
NuMade Mayonnaise Finest Quality Reg. 73c Quart Jar 57c
Stewed Tomatoes Gardenside Case 24 $4.75 5 2½ cans $1.00
Frozen Peas Bel-air—or Mixed Peas & Carrots, Case 24 $3.55 6 10-oz. pkgs. 89c
Cling Peaches Town House, halves or slices. Case 24 $5.98 4 2½ cans $1.00

White Star Tuna
Popular chunk style — Doz. $3.39
3 No. ½ cans 85¢

Tomato Juice
Reg. 3/89c, Town House
Case 12 $2.65 46-oz. cans 89¢

Raspberry Jam
or Loganberry — Empress Brand
Reg. 79c 2-lb. cans 59¢

Grapefruit
Highway — broken segments — Reg. 21c
Case 24 $4.25 5 303 cans 89¢



RIPE
BANANAS
Delicious Plump Golden Ripe Beauties
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Potatoes California New Long White 10 lbs. 49¢

Cantaloupes
Vine-ripened and full flavored—grand at breakfast time.
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Watermelons
Red, juicy and thumpin' ripe—really grand eating.
Cut ..... lb. 8½c
lb. 7½c

Ivory Bar Soap Save 8c on pure Ivory 4 med. bars 35c
White Magic Detergent New foil pack 5-lb. pkg. $1.28 49½-oz. pkg. 69c
Pure Cane Sugar Fine quality Candi Cane 25 lbs. $2.59
Instant Milk Lac-mix Reg. 89c 12-qt. 79c
Shortening Royal Satin 6-lb. can $1.57 3-lb. can 79c
Tomato Soup Rancho Case 24—$4.25 5 22-oz. cans 89c
Pear Halves Highway Case 24—$5.98 4 2½ cans $1.00
Pie Cherries Honeybird Case 24—$5.98 4 No. 2 cans $1.00

Orange Juice Hi-C Case 12—$3.39 3 46-oz. cans 85c
Pineapple Juice Lalani Case 12—$2.98 4 46-oz. cans $1.00
Green Beans Town House Case 24—$3.55 6 303 cans 89c
Fancy Cut Beans Santiam Case 24—$4.25 5 303 cans 89c
Mushrooms Shady Oak Stems and Pieces 4 4-oz. cans $1.00
Canned Peas Green Giant brand Case 24—$4.55 303 can 19c
Chunk Tuna Sea Trader, light meat. Doz. $2.65 4 No. ½ cans 89c
Taste Tells Catsup Case 24 $3.55 6 14-oz. btls. 89c

Strawberry Jam Empress Reg. 79c 2 lbs. 69c
Sandwich Spread Lunch Box Reg. 69c qt. jar 59c
Tomato Catsup Del Monte Case 24—$4.25 5 14-oz. btls. 89c
Processed Cheese Van Zee Reg. 69c 2-lb. pkg. 59c
Lucerne Cottage Cheese 4-lb. plastic ctn. $1.25 pt. 25c qt. 49c
Strawberries Bel-air, frozen Case 24—$4.75 5 10-oz. pkgs. 99c
Lemonade Bel-air, frozen Regular or Pink 6 6-oz. cans 59c
Black Pepper Crown Colony pure ground 4-oz. can 29c
Vanilla Extract Westag Reg. 25c 8-oz. bottle 19c
Margarine Sunnybank Finest quality 4 1-lb. ctn. $1.00
Pancake Flour Reg. 53c Kitchen Craft 4-lb. bag 49c
Baking Mix Reg. 35c Kitchen Craft 2-lb. bag 29c
Toilet Tissue M-D Assorted 2 4-roll pkgs. 79c

Sliced Peaches Town House Case 24—$4.25 5 303 cans 89c
Fruit Cocktail Del Monte Case 24—$5.69 4 303 cans 95c
Sli. Pineapple Fancy Lalani 5 1¼ flats $1.00
Grapefruit Juice Reg. 39c Town House 3 46-oz. cans 95c
Orange Juice Town House Case 12—$3.79 3 46-oz. cans 95c
Grape Drink Welchade—Pure Concord Grape Juice 3 32-oz. cans $1.00
Hawaiian Punch or New Golden P'ch Case of 12—$3.95 3 46-oz. cans 99c
Fancy Pumpkin Reg. 15c Moonbeam Brand No. 2½ can 10c
Grated Tuna Tempest All Light Meat 5 No. ½ cans $1.00
Spaghetti Smith's canned Case 24—$2.65 9 300 cans $1.00
Table Syrup Real maple flavor Sleepy Hollow 24-oz. bottle 55c
Lima Beans Bel-air, frozen Ford Hooks 5 10-oz. pkgs. 99c
Cat Food Nine Lives Case 48—$5.89 8 No. ½ cans 99c

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Here's a sensational price on mature hen turkeys — 14 to 18 lbs. These sweet-meated birds are quick frozen to preserve their flavor.
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Veal Dinner Steaks Haley's quick frozen cubed steaks each 29c
Thick Sliced Bacon Armour's Star Lean and Flavorful 2 lb. pkg. $1.29
Beef Round Steak Tender, "USDA CHOICE" whole or full half cuts lb. 85c

Fresh Fryers Whole drawn 2 to 3-lb. average lb. 43c
Pork Liver Sliced—Rich in Vitamin A lb. 39c

Sliced Lunch Meat
Pickle-Pimiento, Combination Loaf, Spiced Lunch Meat, Sandwich Spread. 8-oz. pkg. 35c

Grocery prices in this advertisement are effective through June 14; meat and produce prices effective through Wednesday, June 11, only, at Safeway in Medford.

SAFEWAY