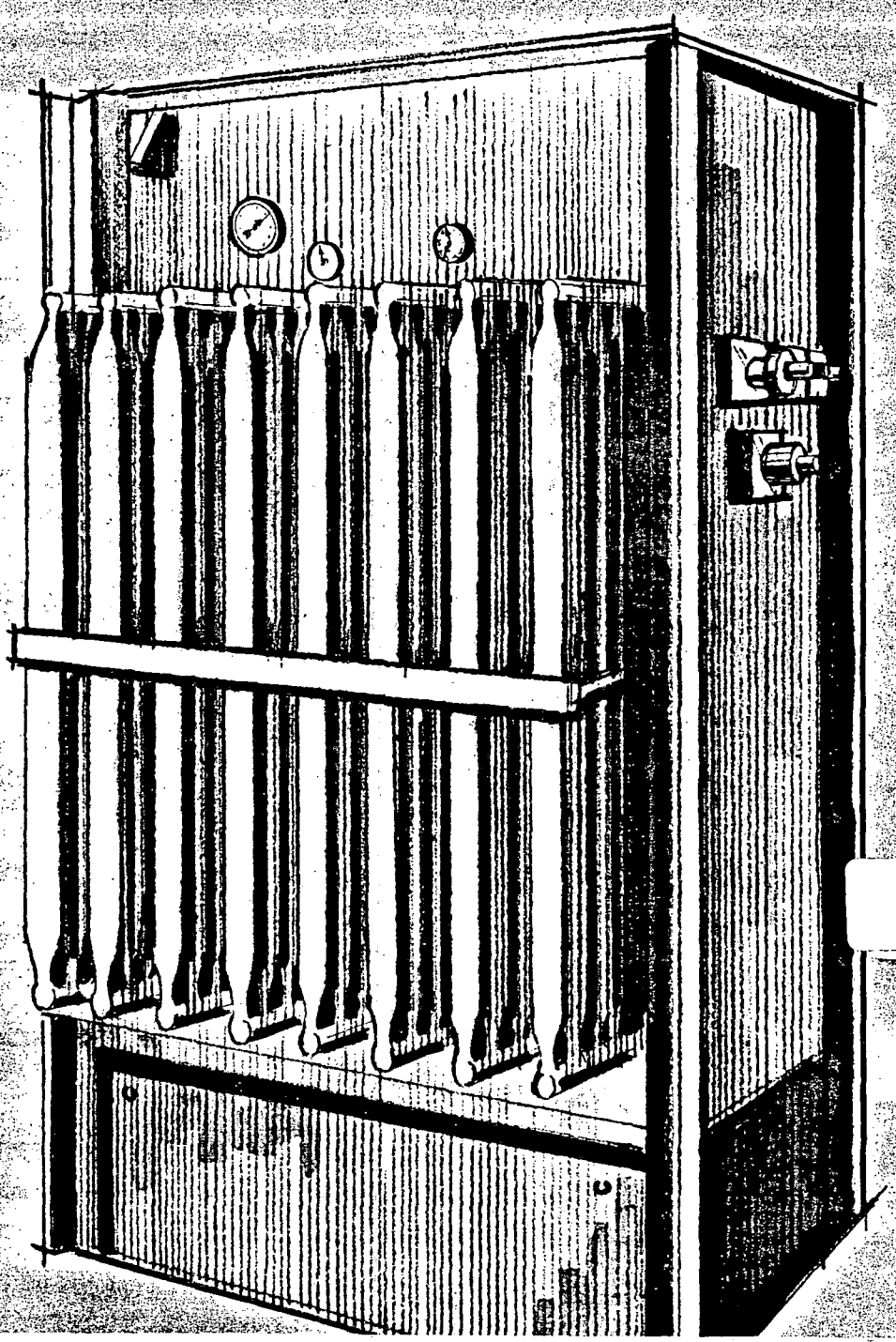
when **Specifying Transformers** here's how to get more performance and save money



DSW 199765

Monsanto

O/FF-14

STLCOPCB4052280

ASKAREL

the fire-resistant dielectric preferred by specifiers who want to save money now and for years to come

askarel fire-resistant transformers offer

Lower Operating Costs
due to lower power losses

High Impulse Strength
giving a margin of safety against transformer failure

Low Maintenance Costs
install them and leave 'em alone

Low Installation Costs
place them where YOU want them placed

Fire Resistance
askarel provides safety from fire

Quietness
naturally designed to be quieter than open dry types

Reliability
more than 30 years of trouble-free operation

DSW 199766

STLCOPCB4052281

why askarel...

For almost 40 years askarel transformers have served the commercial, industrial and utility fields faithfully with safety, economy and reliability. They are built to exact specifications by all major electrical equipment manufacturers.*

Mineral oil transformers can catch fire. When used in confined or populated areas, they require fire walls, vaults, and sprinkling systems; or they must be located at a more remote point requiring long expensive low-voltage lines.

Open dry type transformers are limited in flexibility of location. Supplemental installation costs usually run much higher than with askarel units, especially if sound-deadening or enclosing from atmospheric contamination and moisture is required. They are less dependable than askarel units because they are affected by corrosive atmospheric conditions. Due to the nature of open dry type units, they can require a great deal of maintenance; have a high noise level, and are expensive to operate because of higher load losses and frequent maintenance requirements.

Askarel units deliver a steady power flow year after year, offering lower operating and maintenance costs, quietness and dependability. They are fire-resistant and allow you to place them where YOU want them placed, right at the point of use if you choose. Think of the savings in installation alone!

Askarel will not oxidize or sludge; remains chemically stable when subjected to elevated temperatures and will not corrode metals.



Monsanto has manufactured and supplied askarel fluids since the askarel type transformer was first introduced. The askarel fluid insulation is supplied under various trademarks such as "PYRANOL" (General Electric); "INERTEEN" (Westinghouse); "CHLOREXTOL" (Allis-Chalmers); "NO-FLAMOL" (Wagner Electric). Many other manufacturers such as I-T-E use the generic name, askarel. In all cases, Monsanto makes the askarel fluid for these transformers.

DSW 199767

askarel fire-resistant transformers operate less expensively than other types due to lower core and coil losses

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Incorporate your own figures in the following example and prove this point to yourself. The figures shown assume the same first cost of an askarel transformer and an open dry type unit. (Askarel transformers are now quoted at the same price as 150°C. open dry types.)

TYPICAL EXAMPLE

1,000 KVA, 3 phase, 60 cycle, 13,800 to 480 Y volts.
Transformer first cost assumed about $8,500.

UNIT	CORE LOSS (Watts)	COIL LOSS (at 100% Load) (Watts)
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Coil Loss Difference . . . 3,400 watts

Total Core and Coil Loss Difference in favor of Askarel . . . . . 4,700 watts

Based on an 8,700 hour year operation:
4,700 x 8,700 = 41,000 KWHR (Approx.)

Assuming power cost is $0.015 per KWHR: the savings each year is $615.00 . . . or the Askarel Transformer first cost is paid for in about 10 years.*

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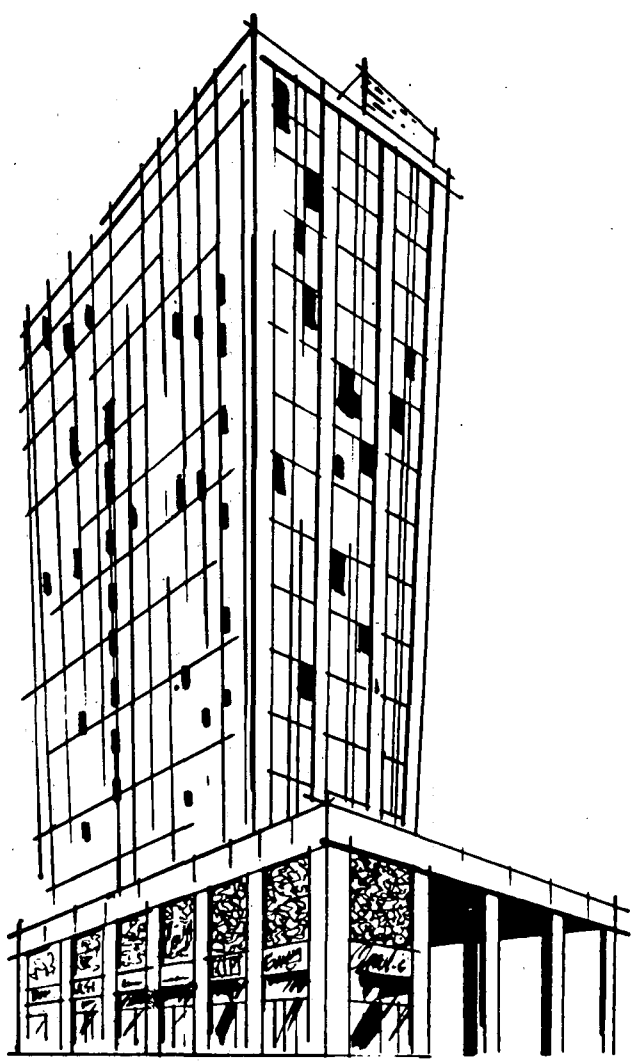

DSW 199768

STLCOPCB4052283

askarel fire-resistant transformers offer easy maintenance

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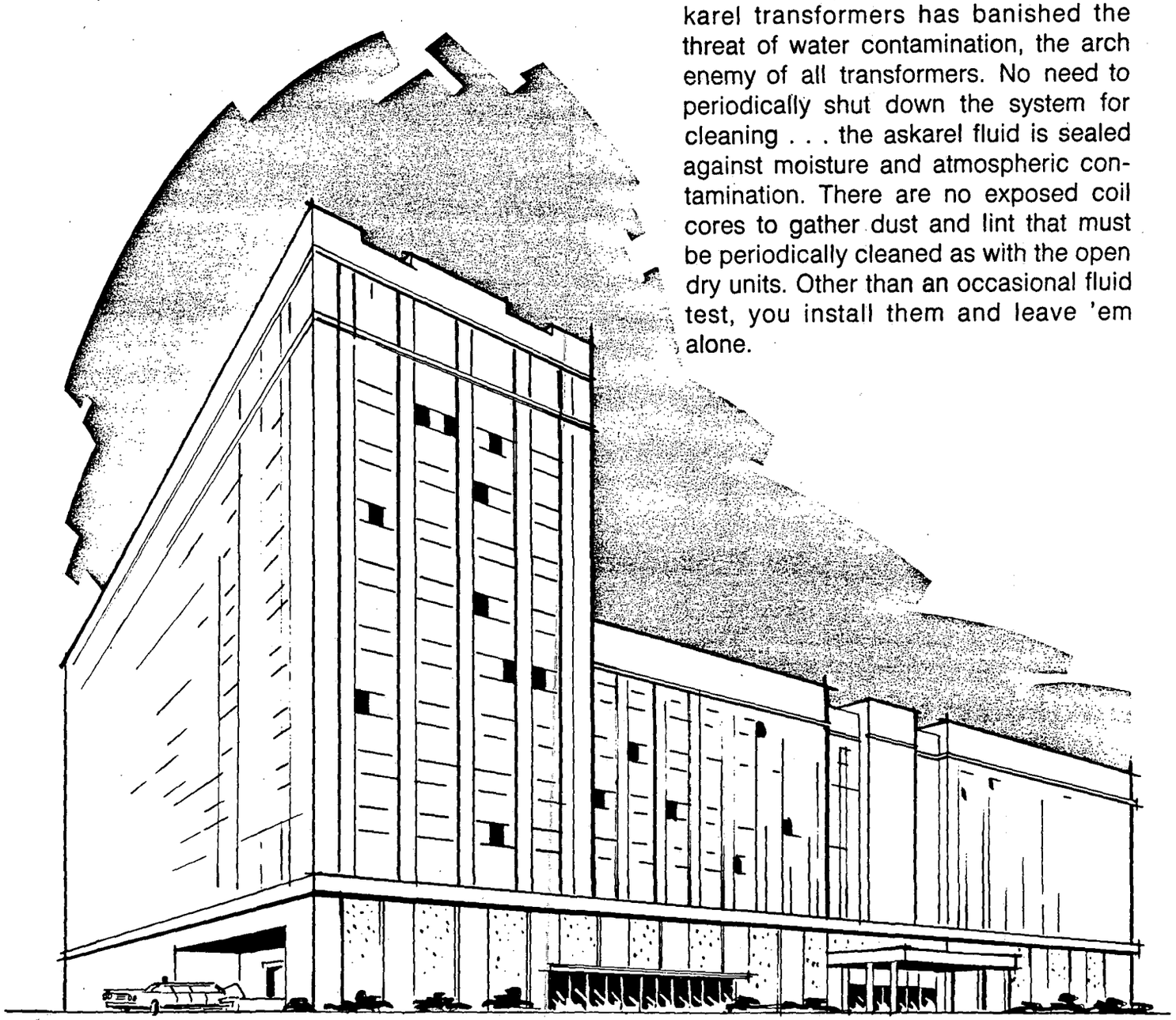
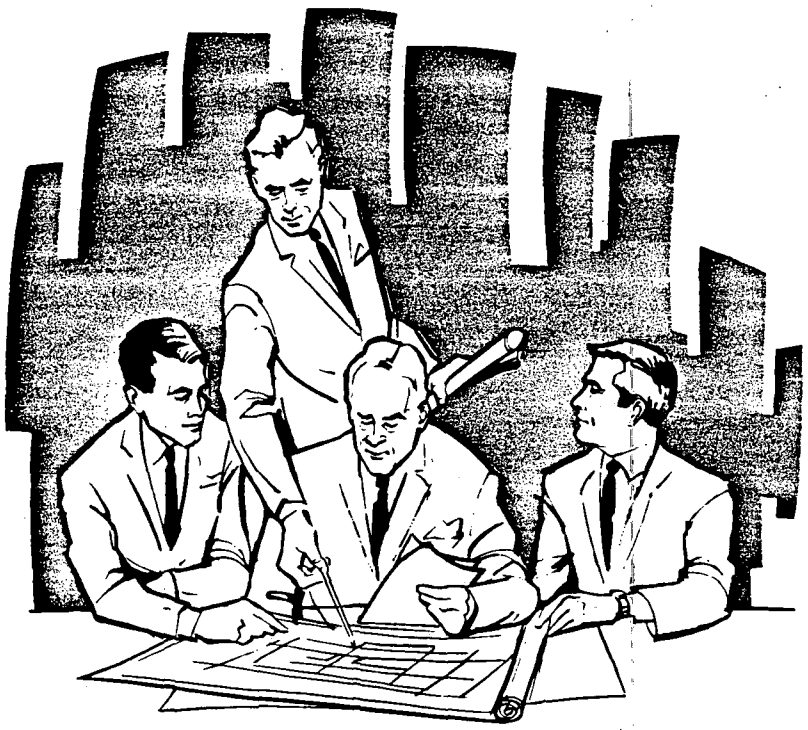


DSW 199769

askarel fire-resistant transformers can give you lower installation costs



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DSW 199770

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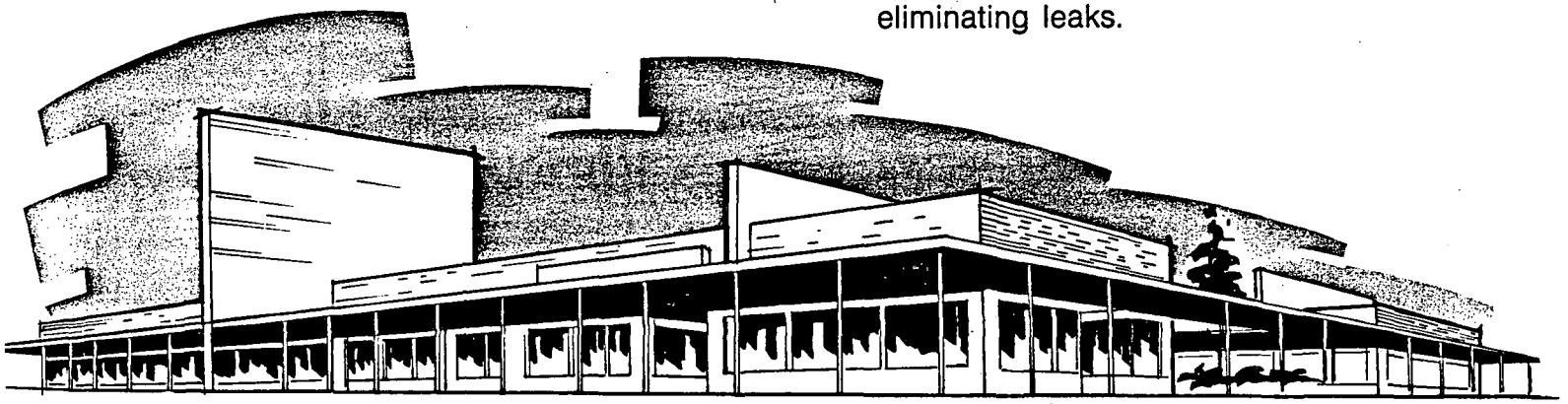

DSW 199771

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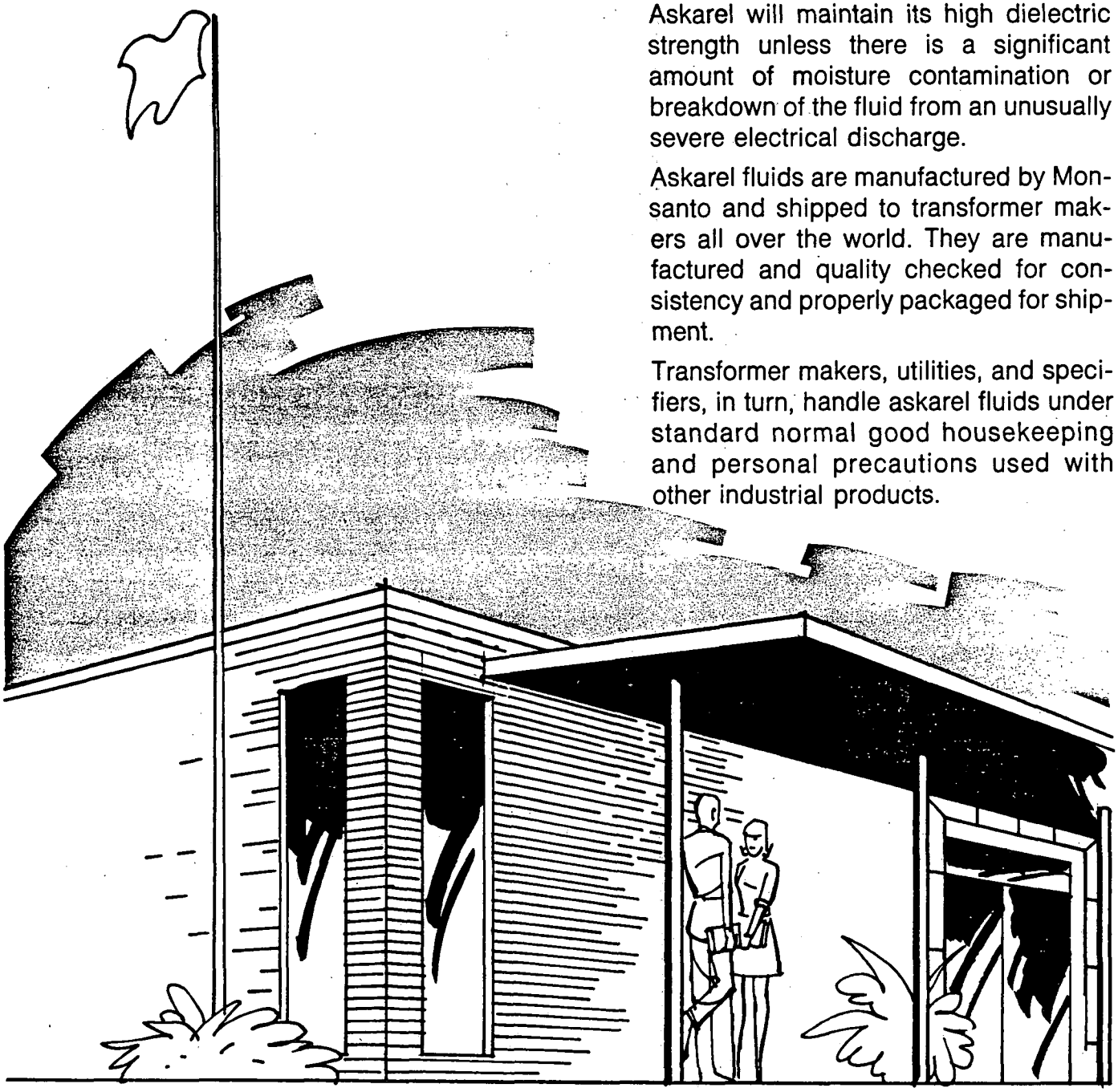
Transformer makers, utilities, and specifiers, in turn, handle askarel fluids under standard normal good housekeeping and personal precautions used with other industrial products.



DSW 199772

before you specify... consider askarel transformers

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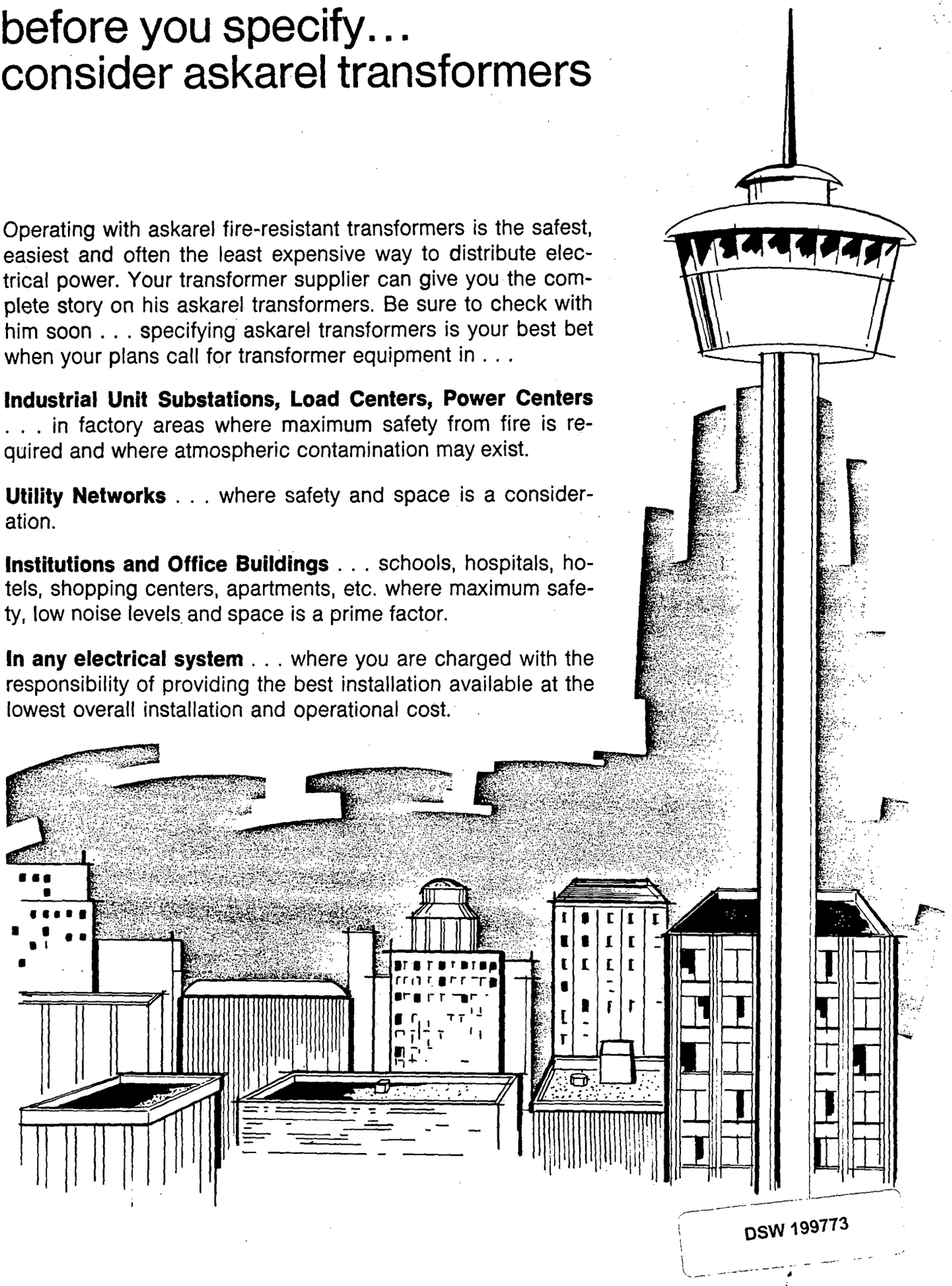
Industrial Unit Substations, Load Centers, Power Centers . . . in factory areas where maximum safety from fire is required and where atmospheric contamination may exist.

Utility Networks . . . where safety and space is a consideration.

Institutions and Office Buildings . . . schools, hospitals, hotels, shopping centers, apartments, etc. where maximum safety, low noise levels and space is a prime factor.

In any electrical system . . . where you are charged with the responsibility of providing the best installation available at the lowest overall installation and operational cost.



STLCOPCB4052288

send for detailed information...



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DSW 199774

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Functional Fluids Dept. 323
800 North Lindbergh Blvd.
St. Louis, Missouri 63166

Please send the literature checked

- ☐ The Care & Grooming of Askarel Transformer Fluid
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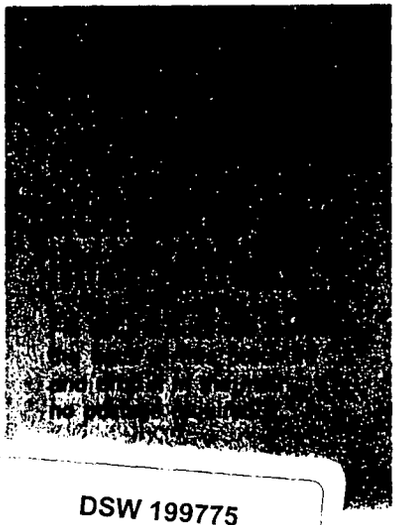
Name/Title_____

Company_____

Address_____

City/State/Zip_____



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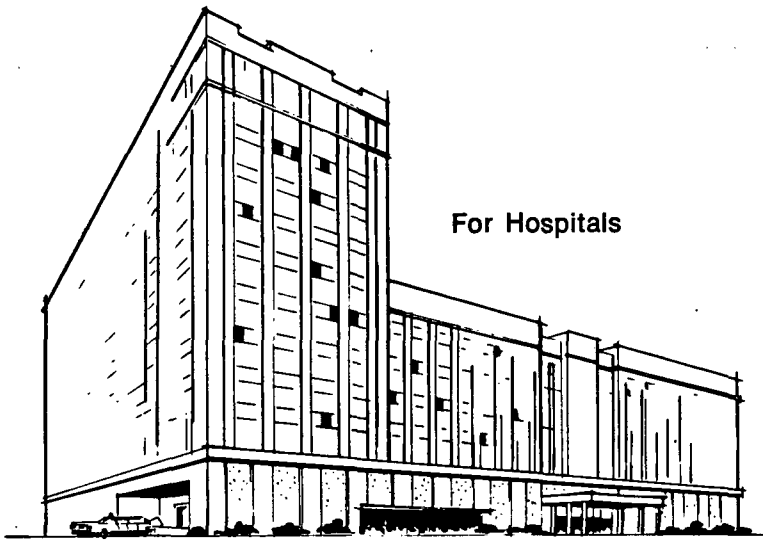
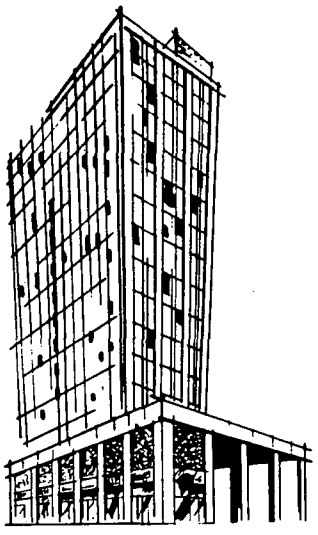
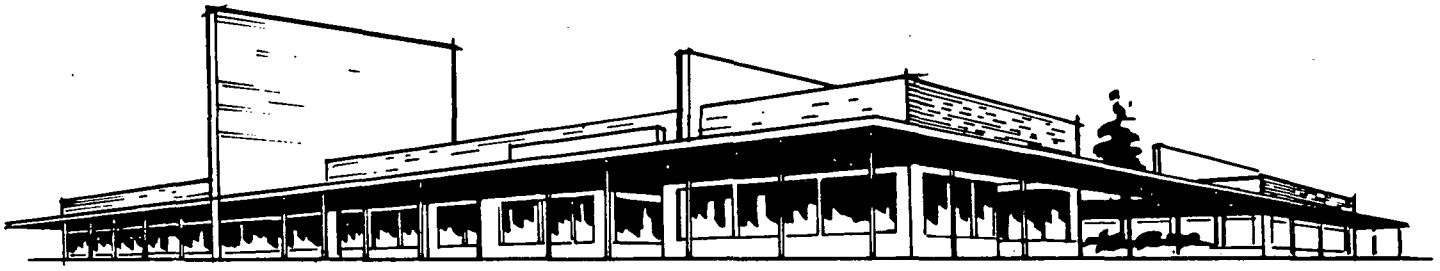


For Hospitals

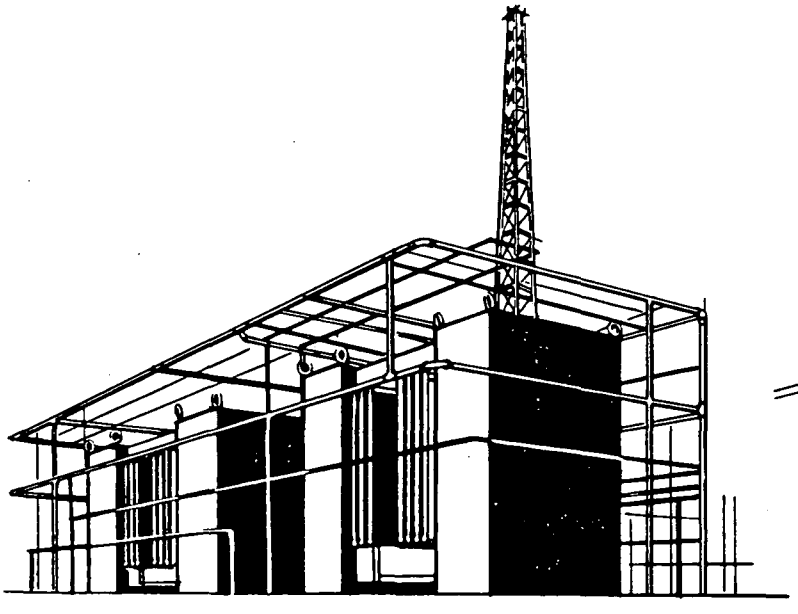


For High-rise Buildings

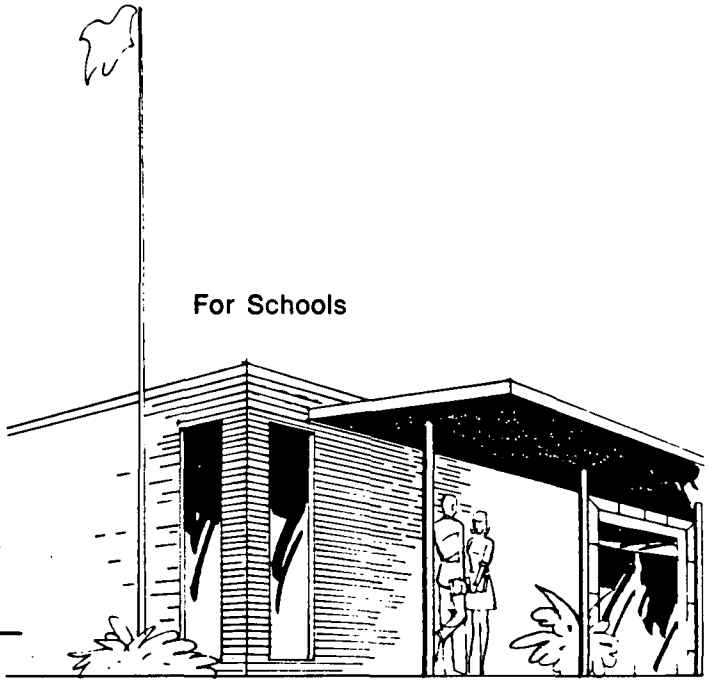


For Shopping Centers

specify askarel for your next job!



For Industrial Load Centers



For Schools

DSW 199777

STLCOPCB4052292

DSW 199778

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STLCOPCB4052293

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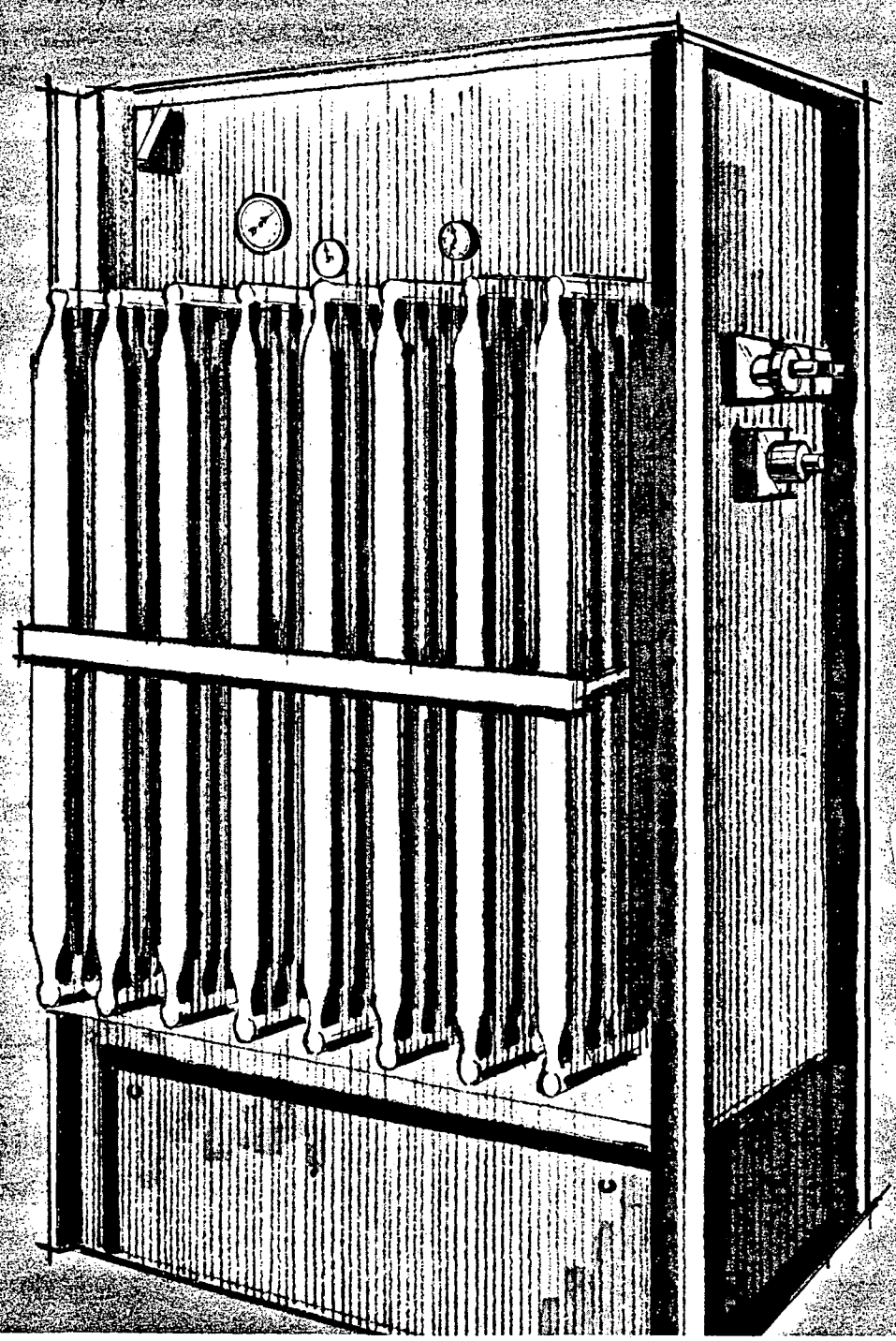

DSW 199779

Monsanto

O/FF-14

STLCOPCB4052294

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DSW 199780

STLCOPCB4052295

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DSW 199781

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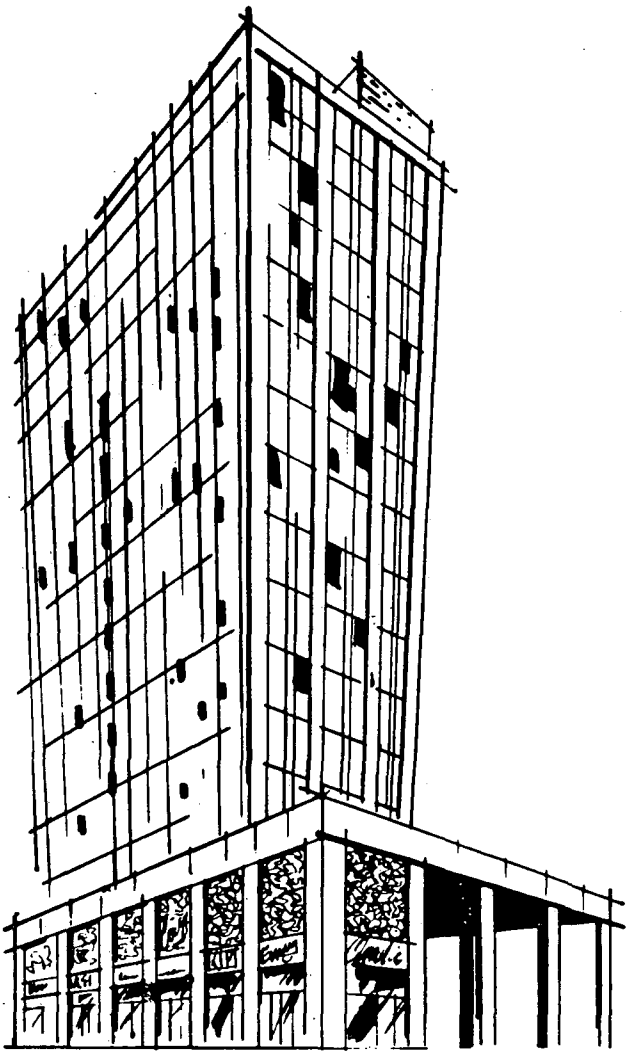

DSW 199782

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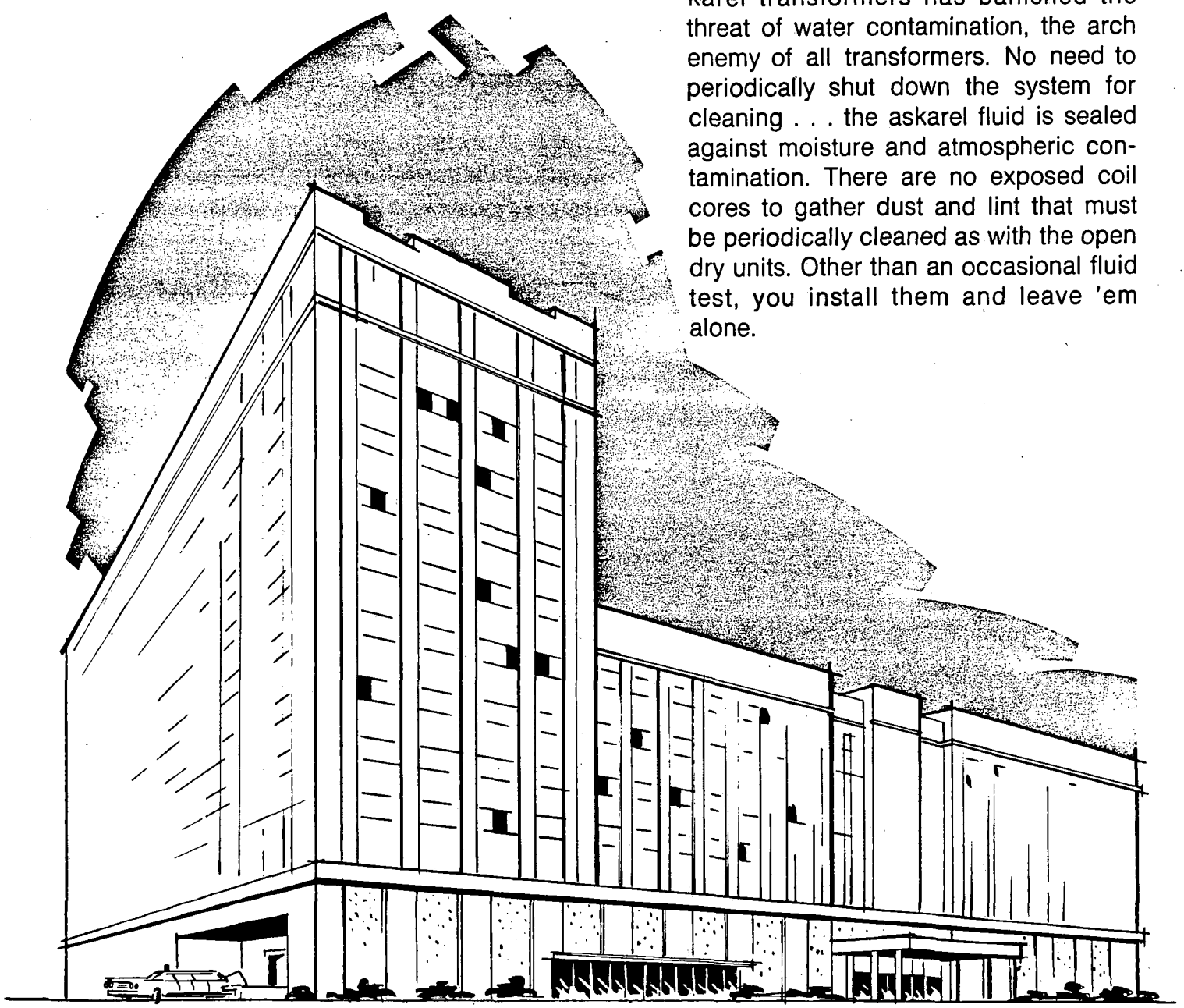

DSW 199783

STLCOPCB4052298

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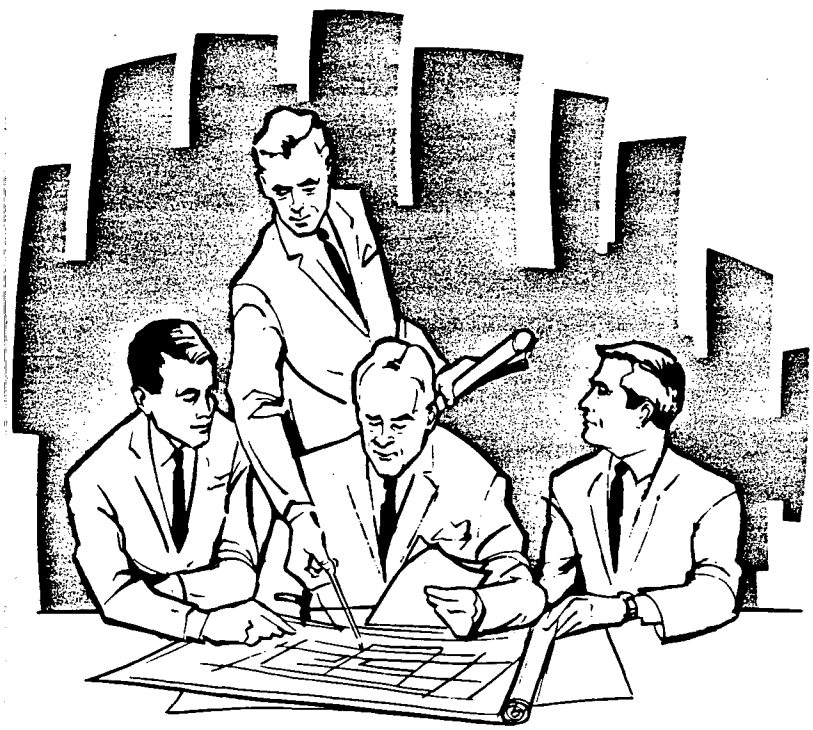

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DSW 199784

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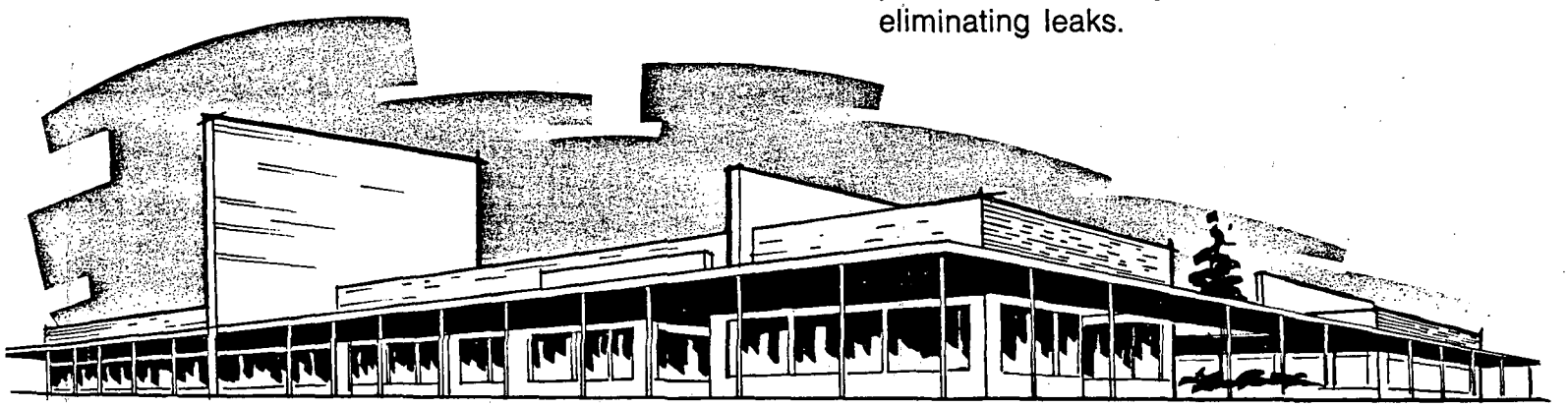

DSW 199785

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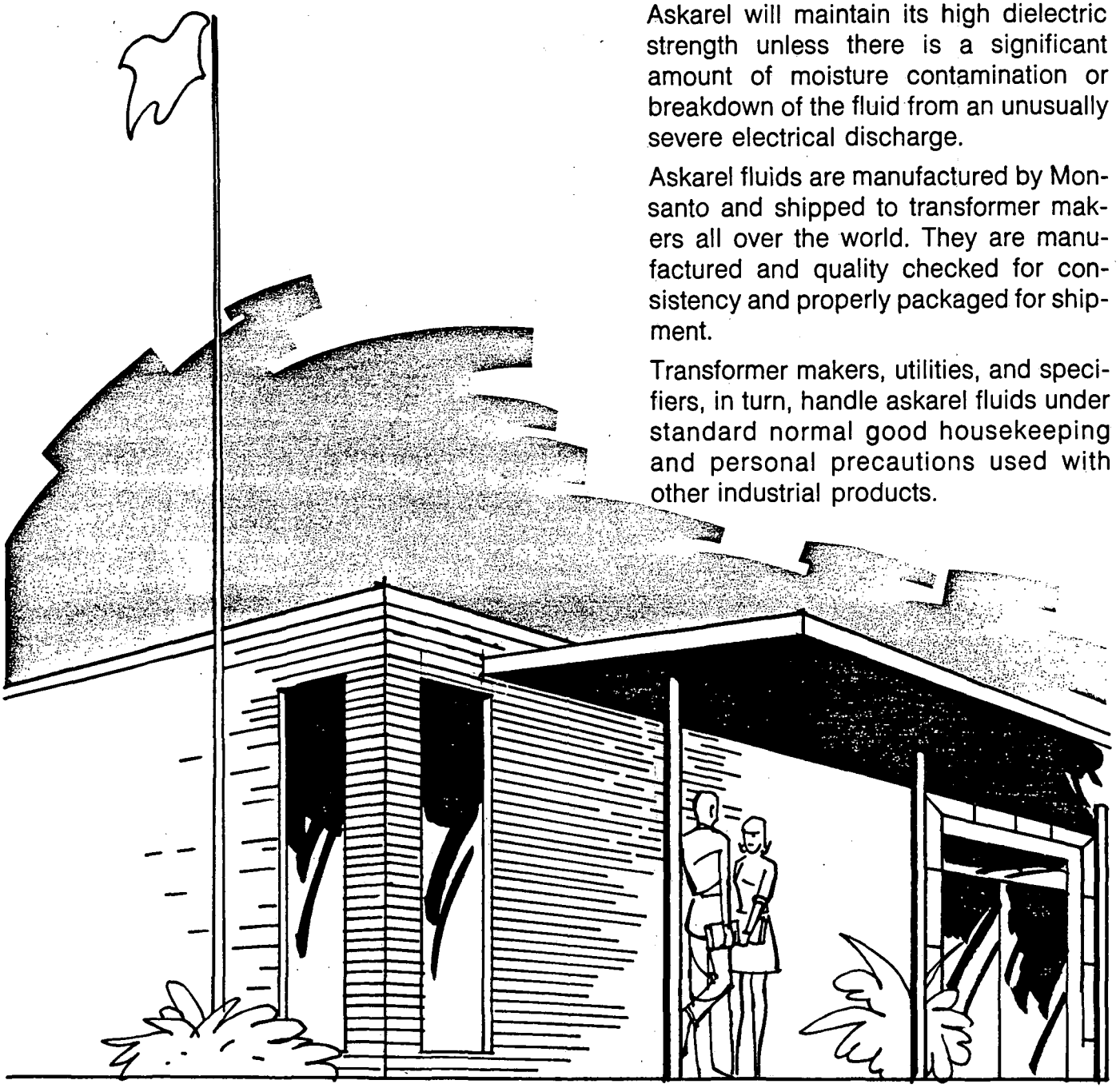

DSW 199786

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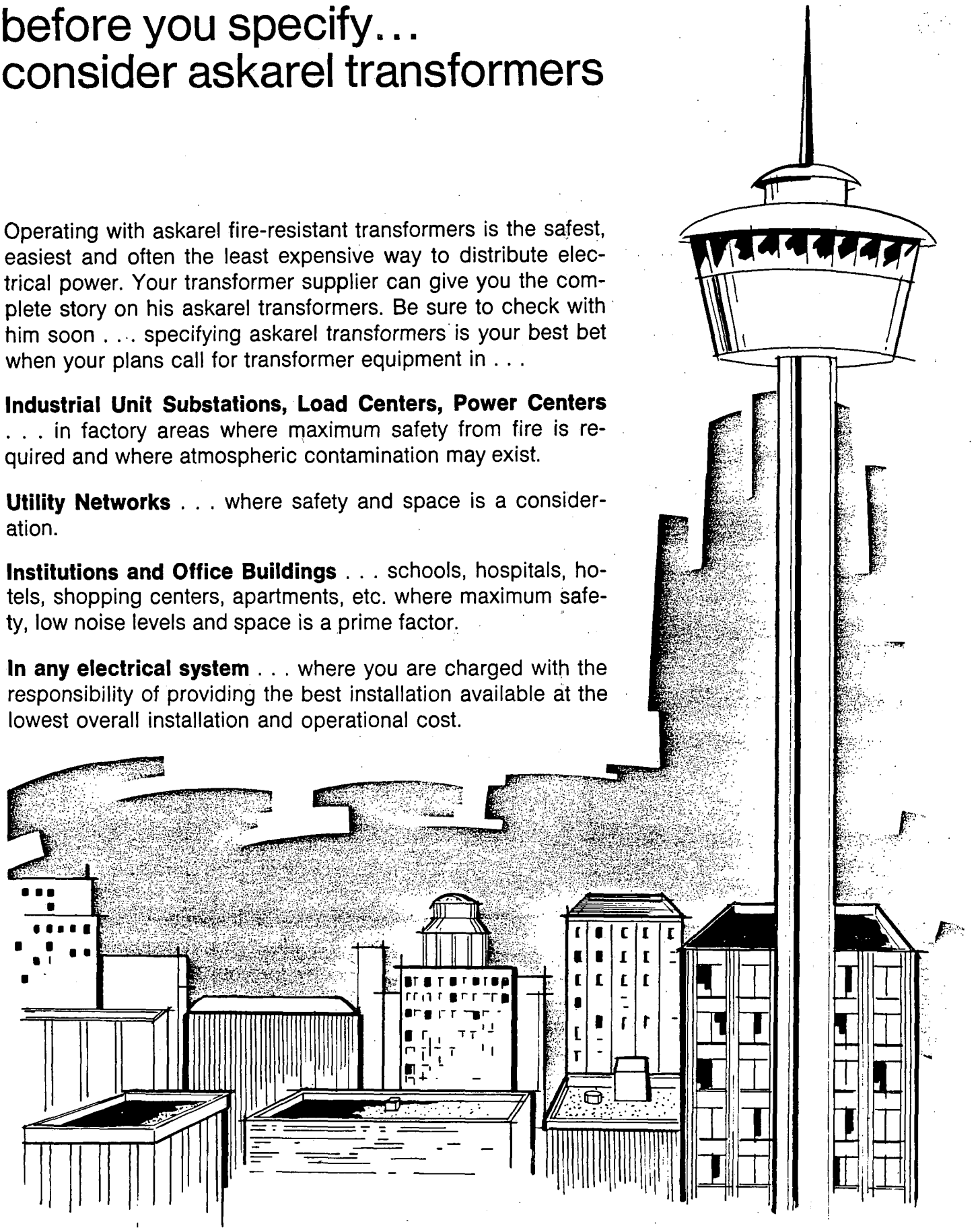

DSW 199787

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DSW 199788

Monsanto Company
Functional Fluids Dept. 323
800 North Lindbergh Blvd.
St. Louis, Missouri 63166

Please send the literature checked

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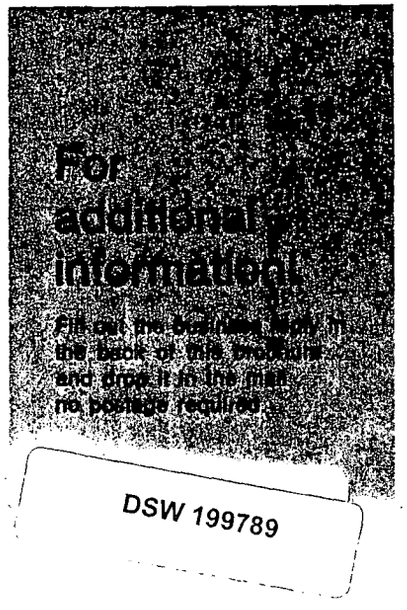
Name/Title_____

Company_____

Address_____

City/State/Zip_____



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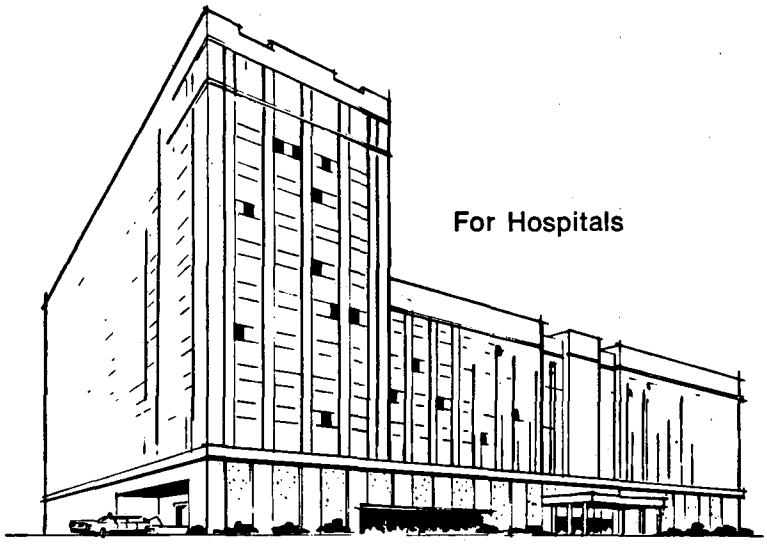
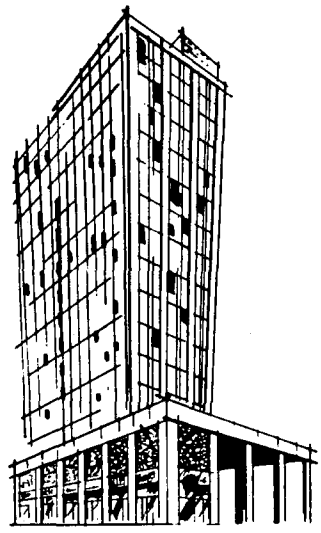


For Hospitals



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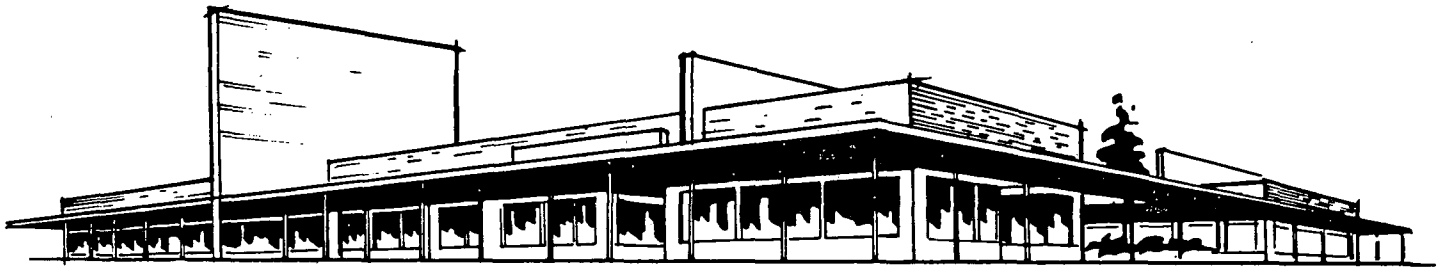
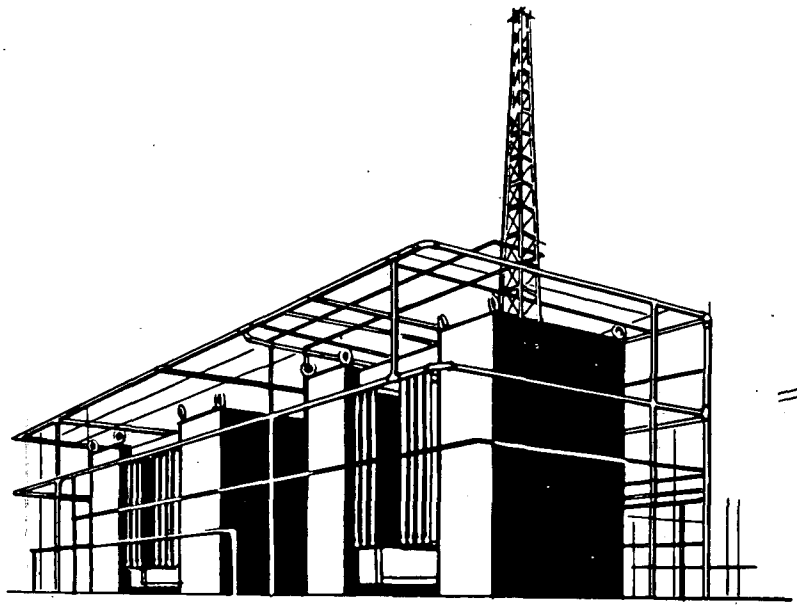
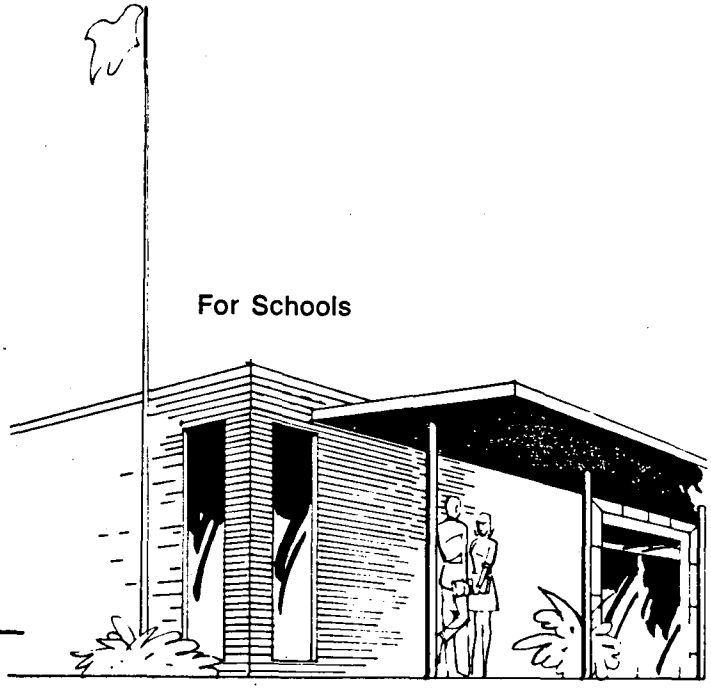


For Shopping Centers

specify askarel for your next job!



For Industrial Load Centers



For Schools

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STLCOPCB4052306

DSW 199792

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