M. F. Baber - St. Louis

October 26, 1970

P. G. Benignus
J. G. Bryant
R. Davis
D. E. Roush

SPECIFICATIONS ON OIL-FILLED CABLES

(1) W. R. Richard
(2) R. H. Munch

You will find attached the following specifications prepared by the Association of Edison Illuminating Companies.

(1) Specifications for Impregnated-Paper-Insulated Cable, High-Pressure Pipe-Type, 1967

(2) Specifications for Impregnated-Paper-Insulated Low-Pressure Oil-Filled Cable, 1969

(3) Guide for Application of AEIC Maximum Insulation Temperatures at the Conductor for Impregnated-Paper-Insulated Cables, 1968.

All impregnated-paper-insulated cables use a high viscosity oil (or polybutene, etc.) for impregnating the paper insulation. Domestic consumption of high viscosity oil presently is about 600,000 gal/year or $300,000/year, and should grow gradually. Consumption of low viscosity pipe oil is about 2,000,000 gal/yr or $1,000,000/yr and should double by 1975-1977.

The attached specifications have little to say about the oil. It should have good electrical properties (low DK, etc), as high a vaporization temperature as possible at all pressures, and be compatible with paper from sulphate process wood pulp. For pipe oil, the lower the viscosity the better, as it is used more and more in pump-cooled systems.

A second set of these specifications is available and will be kept in development files.

MICHAEL F. BABER

ms

Att.

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7-06

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FLOORING

THE MAGAZINE OF INTERIOR SURFACES

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Philadelphia's Reinhart Design, Inc. has added a new twist to the interior package concept with job-engineered selling.

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In Chicago, the Slater Co. is building a new image for its newly diversified interior contracting business.

47 THE MODULAR APPROACH
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50 THE ARCHITECT CONTACT WAY
Ceramic tile and terrazzo are the building blocks for a Grand Rapids contractor's interior package.

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Contract-built custom homes roll out the rug for total interiors in Phoenix.

Viscosities

High Visc polybutene - 3000 Saybolt sec at 210°F

Sun XX, heavy - 100 Saybolt sec (or higher) at 210°F

Sun No. 6 oil — 60 saybolt sec at 210°F
pumping. (visc at ambient more important?)

DSW 201824

oxidative aging (Stability)
1934, open beaker

Vapor pressure curve
esp. at 120°C.

oxidative aging with paper + copper.

Viscosity range
210°F
100 °F (?)

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