SECTION 028402 - IDENTIFYING DIELECTRIC FLUIDS

1. GENERAL
   * + 1. DEFINITIONS
          1. Definitions and Abbreviations:

PCB: Polychlorinated Biphenyls.

PPM: Parts per million.

TSCA/EPA: Toxic Substance Control Act, administered by the U.S. Environmental Protection Agency.

ELAP: Environmental Lab Accreditation Program, administered by New York State Department of Health.

* + - 1. DESCRIPTION
         1. PCB Contamination Analysis of Fluids: Analyze the dielectric fluids in the designated equipment to determine into which TSCA/EPA classification the unidentified fluid belongs:

A non-PCB product (PCB content less than 50 PPM).

A PCB-contaminated product (50 PPM to 500 PPM PCB).

A PCB product (liquids containing 500 PPM or greater PCB).

SHOW OR LIST WHICH EQUIPMENT IS TO HAVE THE DIELECTRIC FLUID ANALYZED OR DESCRIBE IN SCOPE OF WORK. PARAGRAPH BELOW IS AN EXAMPLE, MODIFY AS REQUIRED. DELETE UNDERLINES BEFORE ENTERING INFORMATION.

* + - * 1. Analyze the fluid in the following equipment:

Three transformers in vault, basement of Bldg. No. \_\_\_\_\_\_\_\_.

One oil circuit breaker in vault, basement of Bldg. No. \_\_\_\_\_\_\_\_.

One transformer in load center unit substation, Bldg. No. \_\_\_\_\_\_\_\_.

* + - 1. SUBMITTALS
         1. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
         2. Manufacturer’s installation instructions shall be provided along with product data.
         3. Submittals shall be provided individually in the order in which they are specified and tabbed.
         4. Quality Control Submittals:

Testing Laboratory Data:

Name, address, and telephone number.

Brochure explaining services offered.

Experience directly applicable to the required services.

Type of equipment and methods proposed to be used for the analysis.

* + - * 1. Contract Closeout Submittals:

Final Report; include the following information for each sample tested:

Name, location, and identification number of equipment from which the sample was taken.

Type of analytic procedure used.

PCB concentration (PPM).

Type of PCB (Aroclors found).

Generic identification of non-PCB product (mineral oil, silicone, etc.).

Name of person performing test.

* + - 1. QUALITY ASSURANCE
         1. Testing Laboratory: The analysis shall be performed by an environmental laboratory possessing a valid ELAP certificate of approval, using gas chromatography/electron capture techniques or other acceptable practices.
      2. ROJECT CONDITIONS
         1. Environmental Requirements:

Comply with applicable governmental agency codes, rules, and regulations for handling PCB fluids and articles.

1. PRODUCTS
   * + 1. ACCESSORIES FOR LABORATORY ANALYSIS
          1. Sterile containers, etc., as required by the testing laboratory.
       2. LABELS
          1. For Equipment Containing Non-PCB Products; Either of the Following:

Pressure sensitive 6 x 6 inches TSCA/EPA label stating “CERTIFIED The dielectric fluid …”, etc. Include laboratory name and date on label.

Engraved aluminum or phenolic plates, minimum size 3/4 x 2-1/2 inches stating “THIS EQUIPMENT DOES NOT CONTAIN PCB’s - TESTED BY (insert name) LABORATORY (insert date).”

* + - * 1. For PCB - Contaminated and PCB Products; Both of the Following:

Pressure sensitive 6 x 6 inches TSCA/EPA label stating “CAUTION CONTAINS PCB’s …”, etc.

Engraved aluminum or phenolic, minimum size 3/4 x 2-1/2 inches stating “TESTED BY (insert name) LABORATORY (insert date)”.

1. EXECUTION
   * + 1. PERFORMANCE
          1. Obtain fluid samples from the equipment in accordance with the procedures and requirements set forth by the laboratory.

Clearly label equipment and liquid samples for identification purposes.

* + - * 1. After analytical results have been received, permanently affix the appropriate non-PCB or PCB labels on the equipment.

END OF SECTION 028402