

A. Storage Tanks

All storage tanks should be erected on a cement base so that inspection can be made for leaks. A wall of cement must be erected around the tank to provide a holding basin to contain all the Askarel in the storage tank in the event of a tank failure. The base and wall must be constructed with Askarel resistant expansion joints to prevent cracking of the cement. A sump drain with pump should be provided to remove any accumulation of surface water but must not be tied into a sanitary or storm sewer. The pump will be manually activated when required. The sump-pump must also be of sufficient capacity to pump the askarel from the storage tank basin into containers for salvaging the material or for scrapping in case of a spill. All tank piping must be exposed to permit inspection for leaks.

B. Tank Car And Tank Trucks

All bulk shipment equipment should be inspected for leaks immediately upon receipt. Drain pans must be provided to prevent spillage from unloading hoses and connections. Askarel fluid collected in drain pans should be placed in "Scrap Askarel" drums for disposition.

C. Steel Drums and Cans

On delivery all drum and can shipments will be carefully inspected for leaks. The containers should be stored indoors in an area especially selected for this purpose. A cement curb should enclose the area to provide a basin for containing the Askarel from one or more drums should a container be damaged. The area must not have a drain which is connected to a sanitary or storm sewer.

If an indoor storage area is not possible the containers should be stored under a lean-to on a cement slab with a cement curb. When stored outdoors the drums should be stored with the bungs down to prevent collection of moisture.

III. Plant Area For Filling Equipment With Askarel

It is necessary to assume that in filling equipment with Askarel and further handling of this equipment that an Askarel spill will occur. Therefore it is necessary to provide facilities and a procedure for cleanup to prevent contamination.

A. Askarel Filling Area

1. The location of the Askarel filling area should be adjacent to the test area and final shipping area to minimize the danger of damage of units during handling.
2. The main manufacturing area provided for filling of equipment with Askarel shall be cement floors with adequate cement curb around the entire area to act as a basin for containing the volume of Askarel from the largest production unit.

3. Floor drains must not connect to a sanitary or storm sewer but to a sump provided with a manually activated pump capable of pumping spilled Askarel or other liquids to "Scrap Askarel" drums.
4. Adequate ventilation of the area shall be provided to keep Askarel vapors to a minimum.
5. Drip pans shall be provided for hose connections and filling valves.
6. Askarel resistant aprons and gloves shall be available for operations in which the personnel must come in contact with the Askarel.
7. Respirators or self-contained breathing apparatus must be available for use by personnel in high air concentrations of Askarel.

B. Special Containers For Scrap Materials

1. Drums labeled "Scrap Askarel" must be available for handling all spilled and waste Askarel from the sump, failed units, drip pans, sample jars etc.
2. Open-head drums or other suitable containers labeled "Scrap Burnable Askarel Waste" must be available for handling contaminated cellulose insulation, rags, paper pressboard, wood, sawdust, etc.
3. Separate containers for handling steel, copper, and aluminum, each adequately marked, shall provide for the components of contaminated core and coil assemblies. These containers are required for the various materials when repairing or scraping assemblies.
4. Containers for supplies of saw-dust for absorbing small Askarel spills or clean-up of larger spills must be provided.

IV. Conditioning of Askarels

A. Askarel Conditioning Equipment

1. The conditioning unit should be located either in the storage tank area which has a curb to contain an askarel spill or the main transformer manufacturing area for filling with Askarel.

B. Fullers' Earth

1. Conditioning of new Askarel or recycled Askarel requires fullers' earth treatment. The spent fullers' earth in cartridges or bags when replaced should be allowed to thoroughly drain over drip pans to remove as much liquid Askarel as possible. The cartridge units of steel mesh construction

should be placed in the "Steel Contaminated With Askarel" container for disposition. Cloth bags filled with fullers' earth shall be placed in the "Scrap Burnable Askarel Waste" container for disposition.

2. The fullers' earth shall be changed in the conditioning unit to maintain the askarel within acceptable operating limits.

V. Tear-Down Of Units For Repair Or Scrap

A. Tear-Down Procedure

1. Drain all Askarel from the unit either into a holding tank for reuse or into the drum labled "Scrap Askarel" for disposition.
2. Allow sufficient time for all the Askarel to drain from the core and coils and repeat Step 1.
3. Remove the core and coil assembly from the unit and place it on a steel tear-down table having a raised edge to contain any run-off Askarel from the soaked material. A center drain with a collection container should be provided under the table to collect the fluid Askarel.
4. The personnel that dismantled the unit must wear approved gloves, apron and eye protection.
5. Place all materials in the appropriate salvage containers during the dismantling for later disposition.
6. The tear-down table can be cleaned with kerosene or other approved fluids after the dismantling operation. The used cleaning fluids should be placed in the "Scrap Askarel" drums for disposition.
7. All used materials including rags, saw-dust, tape, etc. regardless of quantity shall be put in to the appropriate containers for disposition.

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