

William J. Cahill, Jr.  
Vice President

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June 6, 1980

Re: Indian Point Unit No. 2  
Docket No. 50-247


Director of Nuclear Reactor Regulation  
ATTN: Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Varga:

In accordance with the requirements of the Commission's Indian Point Unit No. 2 Fire Protection Safety Evaluation Report (SER), dated January 31, 1979, attached to this letter are the design details for the Oil Collection System (SER Item 3.1.13) to be installed on the Reactor Coolant Pumps.

Should you or your staff have any additional questions, please contact us.

Very truly yours,

  
William J. Cahill, Jr.  
Vice President

attachment

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## ATTACHMENT

### R.C.P. OIL COLLECTION SYSTEM DESCRIPTION

The reactor coolant pump oil collection system for Indian Point Unit 2 is being designed and fabricated by the NUS Corporation, Clearwater, Fla. NUS was selected on the basis of having previously designed similar systems for five other PWR plants. The NUS system for Fort Calhoun has already received formal N.R.C. approval.

The collection system will consist of leakproof pans with covers under oil bearing components to contain oil from leaks in pressurized lines and to keep foreign matter out of the drains. The oil bearing components that will be enclosed are:

- o Oil lift pumps (pressurized lines)
- o Oil cooler (pressurized lines and housing)
- o Oil level indicators
- o Oil fill and drain points
- o Flanged connections for lower oil reservoir
- o Sight glasses
- o All flanged oil system connections

Each of the oil collection enclosures will be connected to a header with a flexible hose; the header pipe drains the oil to a drain tank below the enclosures. The drain tank (1 tank for 2 pumps) will be sized to contain the maximum amount of oil that could be lost from the failure of a single oil bearing component (250 gallons). The tank will be equipped with a drain and a vent with a flame arrestor. Also, the tank and drain piping will be seismically supported if their failure during a seismic event could potentially affect any safety-related equipment. The tanks will be located so that the collection system can also be used for routine draining of the oil for maintenance purposes.

The conceptual designs for the oil collection enclosures are shown on Figures 1 through 3. The drain system is shown schematically on Figure 4.

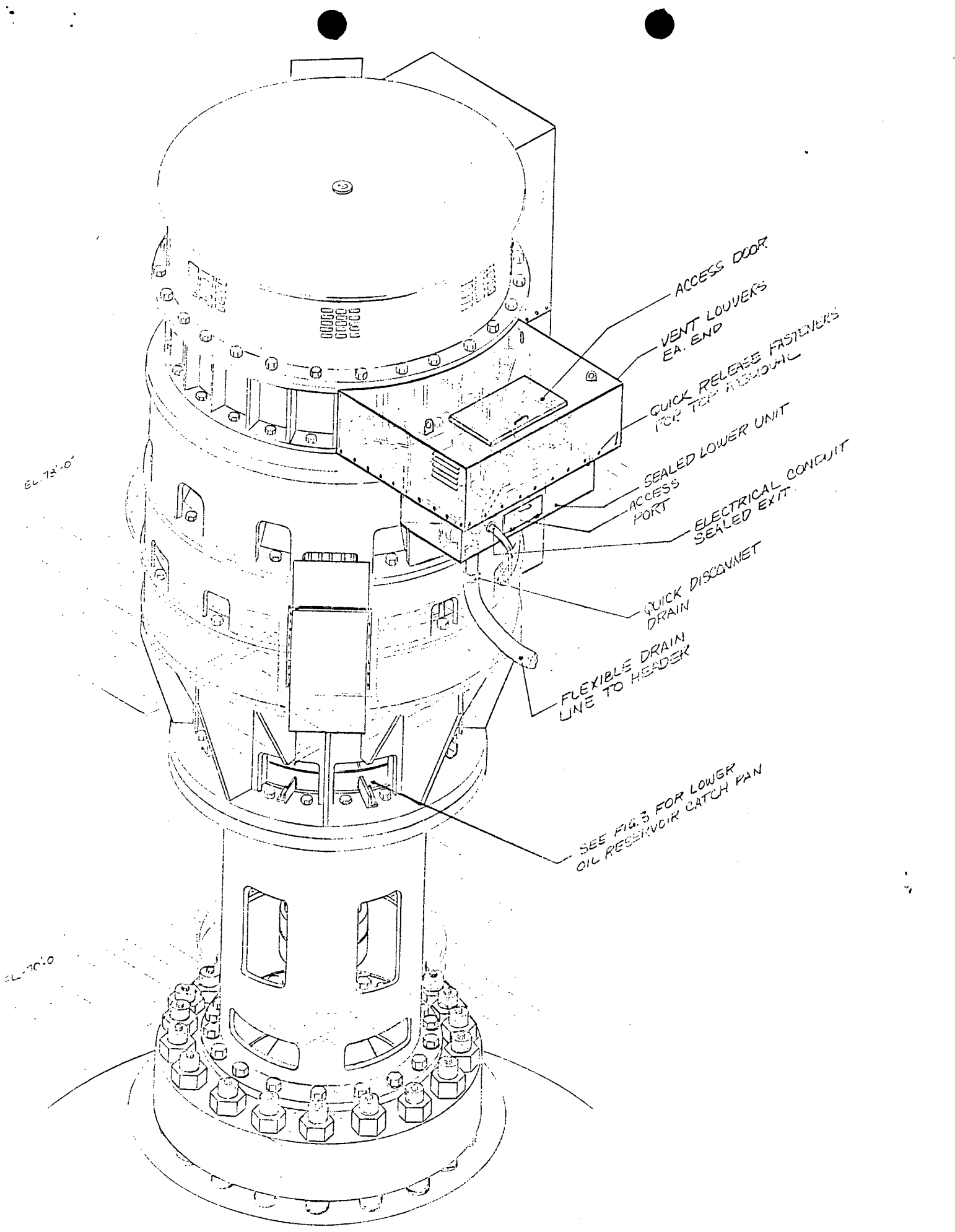


Figure 1 - Oil Lift Pump Enclosure

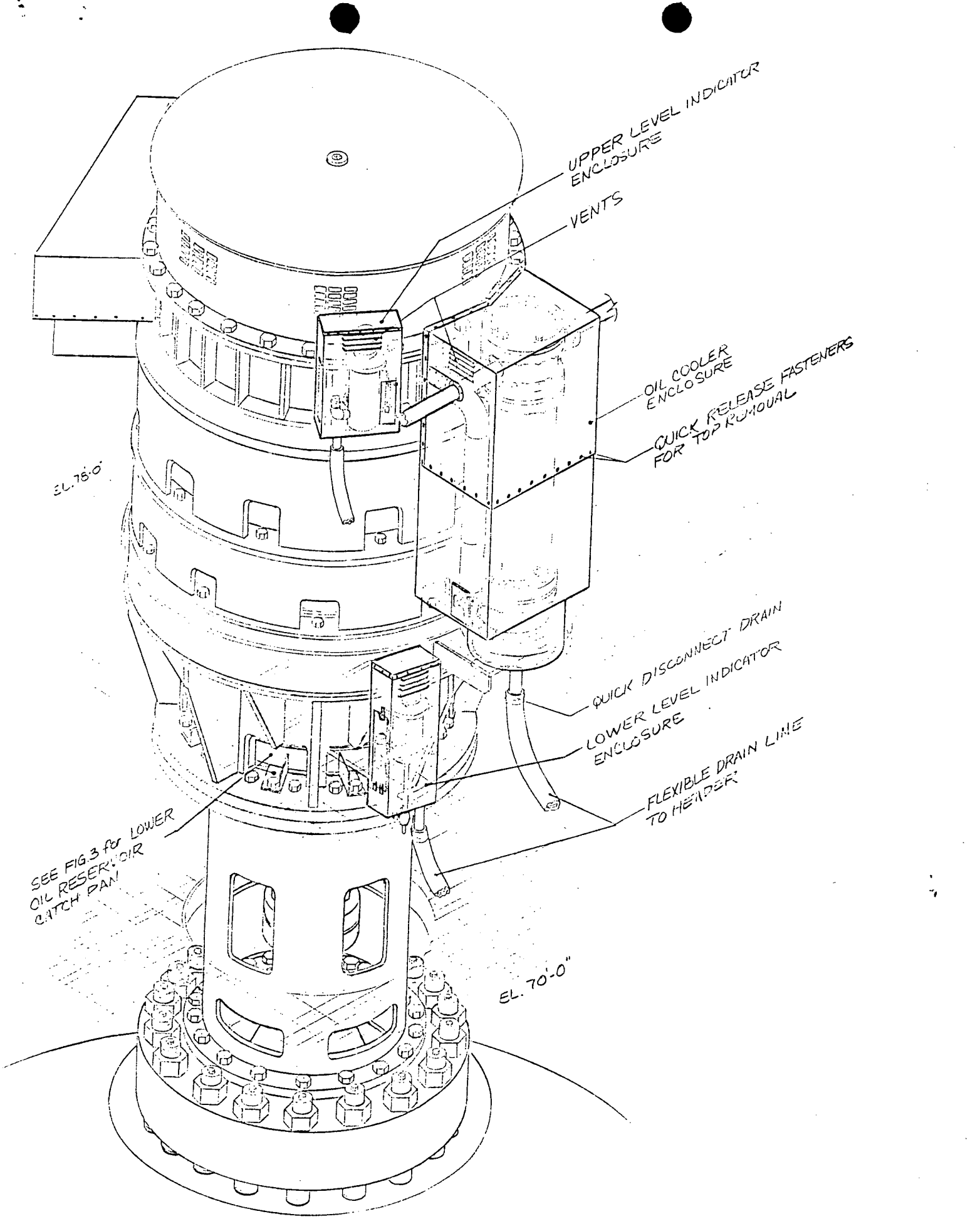


Figure 2 - Oil Cooler and Level Indicator Enclosures

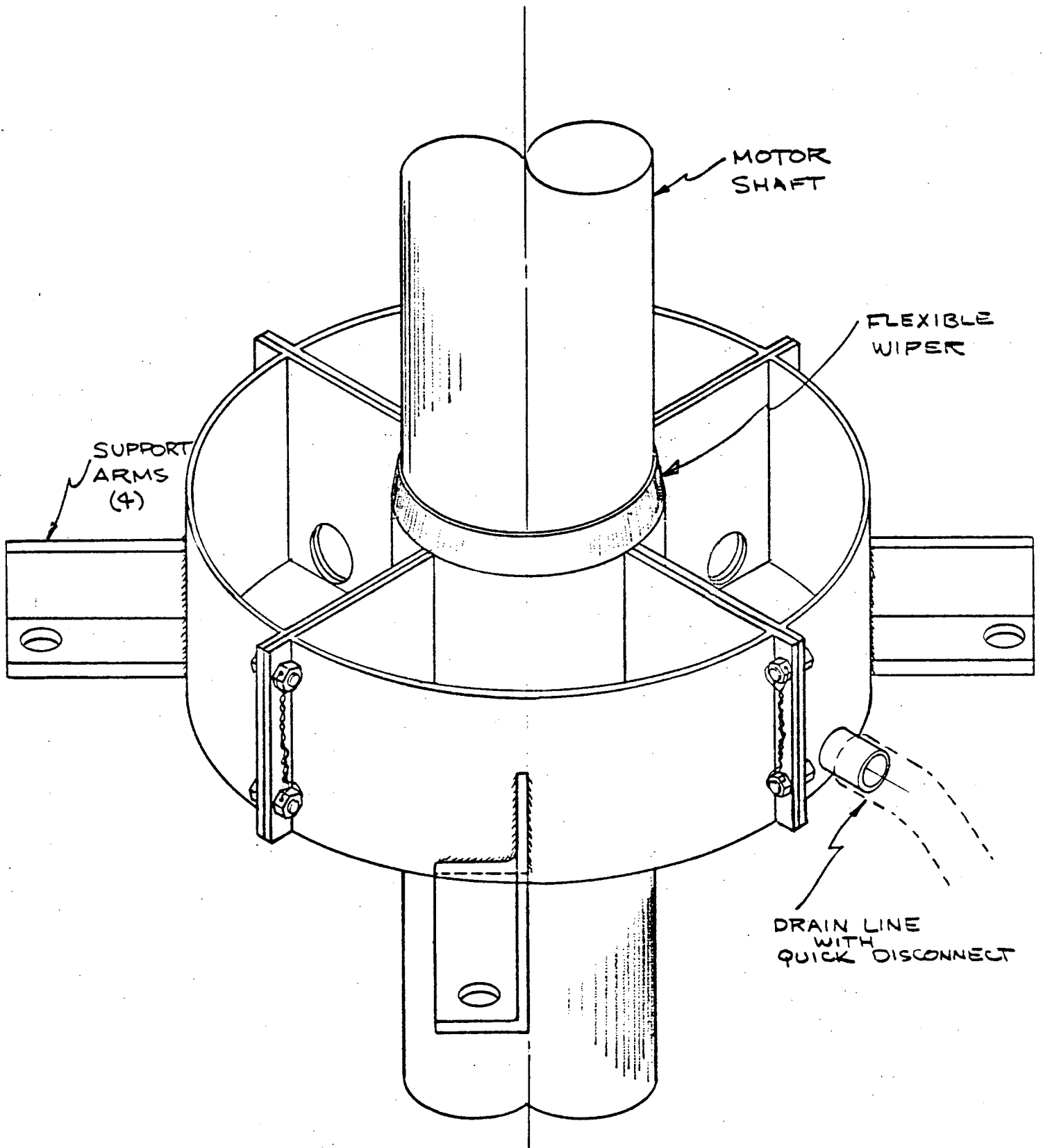


Figure 3 - Lower Oil Reservoir Catch Pan

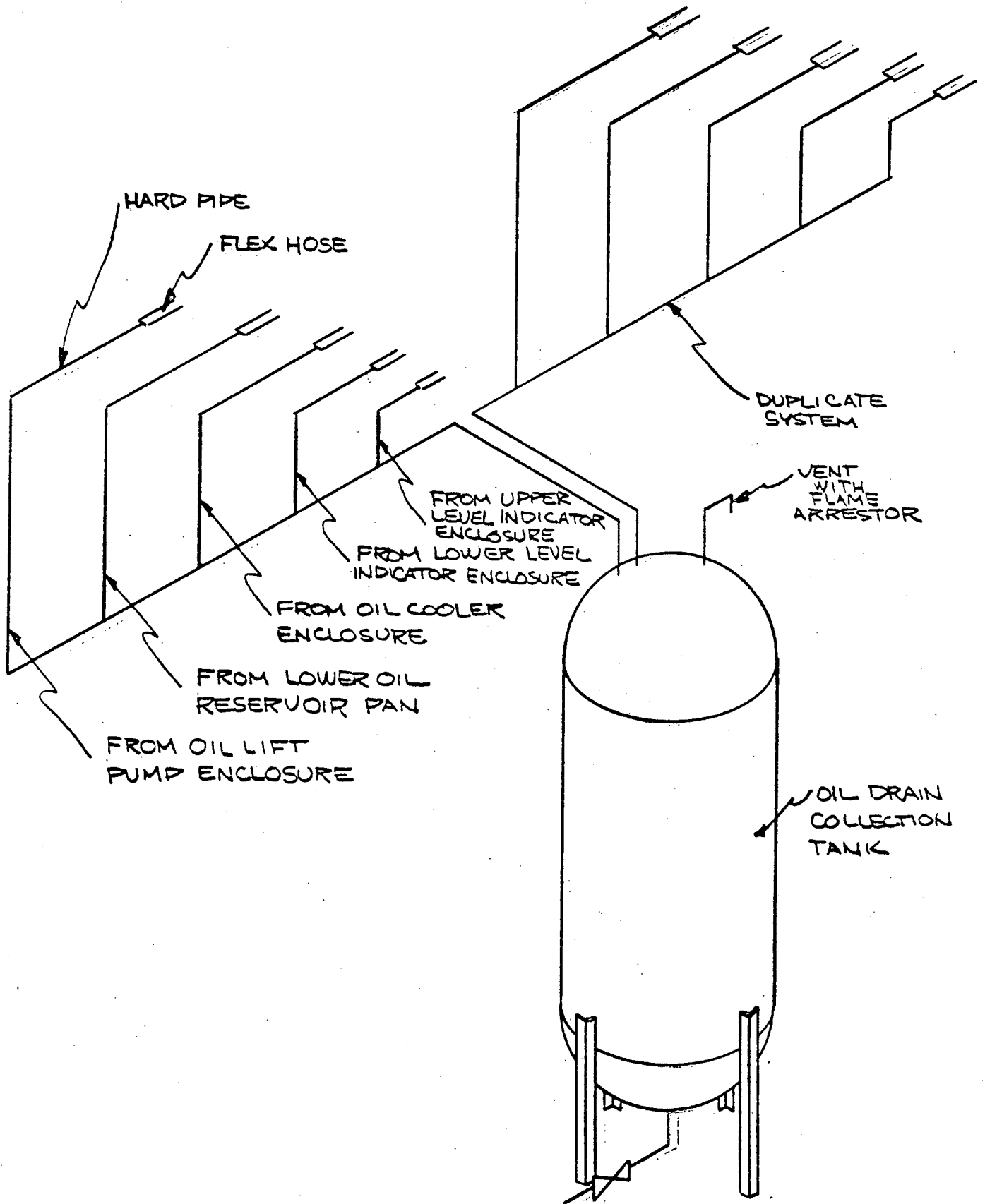


Figure 4 - Schematic of Oil Collection Drain System



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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