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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
631 PARK AVENUE  
KING OF PRUSSIA, PENNSYLVANIA 19406

Docket No. 50-412

SEP 26 1979

Duquesne Light Company  
ATTN: Mr. E. J. Woolever  
Vice President  
435 Sixth Avenue  
Pittsburgh, PA 15219

Gentlemen:

The enclosed Information Notice provides information with regard to failures of lube oil coolers for emergency diesel generators.

Sincerely,

  
for Boyce H. Grier  
Director

Enclosures:

1. IE Information Notice 79-23
2. List of IE Information Notices Issued in the Last Six Months

cc w/encls:

R. J. Washabaugh, Quality Assurance Manager

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ENCLOSURE 1

Accession No: 7908220121  
SSINS: 6870

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT  
WASHINGTON, D.C. 20555

IE Information Notice No. 79-23  
Date: September 26, 1979  
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EMERGENCY DIESEL GENERATOR LUBE OIL COOLERS

Within a two week time span (August 27 to September 11, 1979), the tube sheets failed in the Arkansas Nuclear One (ANO) Unit 1 lube oil coolers for both of the Unit 1 Emergency Diesel Generators. The introduction of water into the diesel lube oil system resulted in trips of both diesels during surveillance testing. The diesels were not considered capable of sustained operation.

Investigation by the licensee has indicated cracks around the outer periphery of the tube sheets. The exact failure mode has not been assessed; however, the licensee has replaced the Emergency Diesel lube oil coolers for both diesels with a cooler of different design. The original lube oil coolers had tube sheets which were one-eighth (1/8) inch in thickness and the tubes were soldered in place. Epoxy was also used as a sealer on the tube (water side) of the lube oil cooler. The new coolers have one-half (1/2) inch tube sheets and the tubes are rolled.

The ANO, Unit 1 Emergency Diesel Generators were purchased in 1970 and were manufactured by the Electromotive Division of General Motors Corporation. The lube oil coolers (Model Number D-191700) were manufactured by Young Radiator Corporation.

This information is provided as an early notification of a possible significant matter. It is expected that recipients will review the information for possible applicability to their facilities. No specific action or response is requested at this time. If further NRC evaluations so indicate, an IE Circular or Bulletin will be issued to recommend or request specific licensee actions. If you have questions regarding this matter, please contact the Director of the appropriate NRC Regional Office.

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ENCLOSURE 2

IE Information Notice No. 79-23

Date: September 26, 1979

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LISTING OF IE INFORMATION NOTICES  
ISSUED IN THE LAST SIX MONTHS

Information Notice No.	Subject	Date Issued	Issued to
79-07	Rupture of Radwaste Tanks	3/26/79	All power reactor facilities with an OL or CP
79-08	Interconnection of Contaminated Systems with Service Air Systems Used As the Source of Breathing Air	3/28/79	All power reactor facilities with an OL and Pu Processing fuel facilities
79-09	Spill of Radioactivity Contaminated Resin	3/30/79	All power reactor facilities with an OL
79-10	Nonconforming Pipe Support Struts	4/16/79	All power reactor facilities with a CP
79-11	Lower Reactor Vessel Head Insulation Support Problem	5/7/79	All power reactor facilities with an OL or CP
79-12	Attempted Damage to New Fuel Assemblies	5/11/79	All Fuel Facilities, Research Reactors, and Power Reactors with an OL or CP
79-13	Indication of Low Water Level in the Oyster Creek Reactor	5/29/79	All power reactor facilities with an OL or CP
79-14	Safety Classification of Electrical Cable Support Systems	6/11/79	All applicants for, and holders of a power reactor CP

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LISTING OF IE INFORMATION NOTICES  
ISSUED IN 1979

Information Notice No.	Subject	Date Issued	Issued to
79-15	Deficient Procedures	6/7/79	All power reactor facilities with an OL or CP
79-16	Nuclear Incident at Three Mile Island	6/22/79	All research and test reactors with an OL
79-17	Source Holder Assembly Damage from Misfit Between Assembly and Reactor Upper Grid Plate	6/20/79	All holders of reactor OLs and CPs
79-18	Skylab Reentry	7/5/79	All holders of reactor OLs
79-19	Pipe Cracks in Stagnant Borated Water Systems at PWR Plants	7/17/79	All power reactor facilities with an OL or CP
79-20	NRC Enforcement Policy - NRC Licensed Individuals	8/14/79	All Holders of Reactor OLs and CPs and Production Licensees with Licensed Operators
79-20 (Revision No. 1)	Same Title as 79-20	9/7/79	Same as 79-20
79-21	Transportation and Commercial Burial of Radioactive Material	9/7/79	All power and research reactors with OLs
79-22	Qualification of Control Systems	9/14/79	All power reactor facilities with an OL or CP