



# THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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Dalwyn R. Davidson

VICE PRESIDENT

SYSTEM ENGINEERING AND CONSTRUCTION

September 7, 1979

United States Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Washington, D.C. 20555

Attn: Director, Division of  
Reactor Construction Inspection

Re: Perry Nuclear Power Plant (PNPP)  
(Docket Nos. 50-440, 50-441)  
IE Bulletin No. 79-15

Dear Sir:

The following has been prepared as a response to IE Bulletin 79-15  
pertaining to Deep Draft Pump Deficiencies.

The number of deep draft pumps used in safety-related application on Perry  
along with their descriptions is attached. The name of the manufacturer,  
the model, capacity, overall dimensions and plant application are included  
in the description of these pumps.

We are currently in the process of installing the subject pumps and have  
not yet acquired test or operating data at the plant site.

Some repair work on the Byron-Jackson pumps was performed on site. This  
work involved the replacement of a bent shaft due to shipping damage, and  
return of the Residual Heat Removal seal piping for a factory hydrotest.  
In addition, upon witnessing some Byron-Jackson factory pump tests, several  
problems were observed, including short coastdowns, galled throttle bushing,  
and scored wear rings. These problems were corrected by the supplier  
before the pumps were shipped to the Perry site.

If you require further information, please let me know.

Very truly yours,

D. R. Davidson

Vice President

System Engineering and Construction

DRD/cmw

cc: Mr. James G. Keppler, Director  
Region III, Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

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| TYPE                             | RHR PUMP         | LFCS PUMP        | HPCS PUMP        | EMERGENCY SERVICE WATER PUMPS |             |
|----------------------------------|------------------|------------------|------------------|-------------------------------|-------------|
| Tag No.                          | E12C002          | E21C001          | E22C001          | 1&2 P45C001 A,B               | 1&2 P45C002 |
| Total Perry I                    | 3                | 1                | 1                | 2                             | 1           |
| Total Perry II                   | 3                | 1                | 1                | 2                             | 1           |
| Manufacturer                     | GE/Byron-Jackson | GE/Byron-Jackson | GE/Byron-Jackson | Goulds                        | Goulds      |
| Model                            | 30DX-20CKXH      | 30DX-20CKX-H4    | 30DX-19CKX-L12   | VIT 20x30BLC                  | VIT 8x12JMC |
| Flow-gpm                         | 7260             | 6250             | 1680             | 11,500                        | 960         |
| Head-ft                          | 293              | 760              | 2875             | 160                           | 160         |
| No. of Stages                    | 3                | 5                | 13               | 2                             | 5           |
| Barrel length-in.                | 251              | 275              | 233              | N.A.                          | N.A.        |
| Barrel dia. - in.                | 37               | 37               | 37               | N.A.                          | N.A.        |
| Suction Nozzle dia.-in.          | 24               | 24               | 24               | 33                            | 11-3/8      |
| Discharge nozzle dia.-in.        | 18               | 16               | 16               | 20                            | 8           |
| Baseplate to 1st stage inlet-in. | 242              | 266              | 275              | 492                           | 426         |