

September 11, 1979

Office of Inspection & Enforcement  
Region I  
Attn: Mr. Boyce H. Grier, Director  
U. S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

Dear Mr. Grier:

Re: Nine Mile Point Unit 2  
Docket No. 50-410

Your July 11, 1979 IE Bulletin 79-15 requested information regarding deep draft pumps utilized in safety related systems at Nine Mile Point Unit 2. Attached is the requested information.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

*James Bartlett*  
James Bartlett  
Executive Vice President

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attachment

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Item 1

Provide the number of deep, draft pumps similar to those shown in Figures 1 and 2 utilized in safety related applications in each facility.

Response to Item 1

Five deep draft vertical pumps, similar to those shown in Figures 1 and 2 of I.E. Bulletin 79-15 will be utilized in safety related systems at Nine Mile Point Unit 2.

Items 2 and 3

Provide manufacturer, model, capacity and plant application.

Provide overall dimensions of pumps.

Response to Items 2 and 3

The information requested for each pump is as follows:

A. One (1) Low Pressure Core Spray Pump

Manufacturer:	Byron Jackson Pumps
Model:	30DX20CKXH, 5-stage VMT
Capacity:	7214 GPM at 556 ft head 6350 GPM at 714 ft head
Overall Dimensions:	Pump height - 29' 2" Barrel Diameter - 3' 1"

B. One (1) High Pressure Core Spray Pump

Manufacturer:	Byron Jackson Pumps
Model:	30DX19CKXLH, 13-stage VMT
Capacity:	6942 GPM at 610 ft head 6435 GPM at 897 ft head 1623 GPM at 2830 ft head
Overall Dimensions:	Pump height - 39' 4 3/8" Barrel diameter - 3' 1"

C. Three (3) Residual Heat Removal Pumps

Manufacturer:	Byron Jackson Pumps
Model:	30DX20CKXH, 3-stage VMT
Capacity:	7450 GPM at 360 ft head
Overall Dimensions:	Pump height - 28' 4" Barrel diameter - 3' 1"



#### Items 4 thru 6

Provide summary of startup, testing and routine maintenance history.

Provide operational problems and major repair efforts.

Provide the longest interval that each pump has been available for operation without corrective maintenance. Identify the number of cycles of operation during this interval, the duration of each cycle and the operating mode(s) (recirculation, rated, flow etc.). Identify the longest continuous operation at or near rated flow conditions for each pump and the status of the pump operability at the end of the run.

#### Response to Items 4 thru 6

With the exception of the manufacturer's testing program, the five pumps listed above have experienced no periods of operation. Since arrival at the Unit 2 site, they have been stored and maintained in accordance with the manufacturer's recommendations.

#### Item 7

In addition, licensees shall accumulate and make available for inspection at the licensee's plant site the following information on the above-identified pumps:

- a. Drawings, sectional assemblies and parts list.
- b. Detailed history of pump maintenance (alignment, parts replacement, etc) including bearing wear data, replacement frequency and a comparison with the manufacturers rated life for wearing surfaces.
- c. Quality assurance and reliability testing requirements.
- d. Design specifications
- e. Results of tests performed during operation or prior to licensing.
- f. Details of the procedures used to align the pump column.

#### Response to Item 7

Drawings, sectional assemblies, parts lists, design specification, installation procedures, and quality assurance and reliability testing requirements will be available for inspection on site when the pumps are received on site. Records of pump test results and maintenance will be maintained on site and made available for inspection as they are performed.



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