



BW/IP International, Inc.

45-10334-14

RA-5A12

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Byron  
Jackson  
Pumps

695  
Church  
Road

Elgin  
Illinois  
60123

Telephone  
708 741 0400  
Fax  
708 741 0687

United  
Centrifugal  
Pumps

Pump  
Division

05 August 1994

Nebraska Public Power District  
General Offices  
1414 15th Street  
Columbus, NE 68601

Per VMCF 94-401

Attention: Mr. Ed Togel

subject: Cooper Nuclear Station  
Service Water Pumps  
S/N 681-H-0441/4  
28 KXL, 1-Stage VCT

Dear Ed:

This letter is in response to our past conversations concerning the minimum gland water flow injection for your Byron Jackson service water pumps at the Cooper Nuclear Station.

The ideal operating range for the gland water injection is 3 to 4 gallons per minute at 25 PSI as clearly delineated on our Outline Drawing, 2C-4747. This flow rate can be increased to 6 gallons per minute without any adverse effect to the pump operation.

BW/IP recommends an absolute minimum gland water flow injection of 1.5 gallons per minute. The pump should be immediately tripped off-line if the injection flow rate is at this 1.5 gallons per minute or less.

If you should have any further questions in regard to the minimum gland water flow injection, please feel free to contact me at your convenience.

Very truly yours,

BW/IP INTERNATIONAL, INC.  
PUMP DIVISION

*Pat Prom*  
Patrick W. Prom  
Senior Sales Engineer

PWP:db(94\nppd05.aug)

CC: BW/IP INTERNATIONAL, INC.  
Jeff Bartholomew - Los Angeles

J-12

*no change*  
*2.3.1*  
*no effect*  
*last*  
*7/03*