



Commonwealth Edison

One First National Plaza, Chicago, Illinois

Address Reply to: Post Office Box 767

Chicago, Illinois 60690

January 10, 1984

Mr. James G. Keppler, Regional Administrator
Directorate of Inspection and
Enforcement - Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Byron Station Unit 1
Supplemental Response to IE Bulletin No. 83-05
NRC Docket No. 50-454

Reference (a): IE Bulletin No. 83-05 - R. C. DeYoung letter to
All OLs and CPs dated May 13, 1983

(b): P. L. Barnes letter to J. G. Keppler dated
August 12, 1983

Dear Mr. Keppler:

Reference (a) requested that the Commonwealth Edison
Company provide a written report regarding use of ASME Nuclear Code
pumps and spare parts manufactured by the Hayward Tyler Pump Company.

Reference (b) provided the initial response for Byron Unit
1. We committed to provide the results of the pump performance test
and the system hydrostatic pressure test following their
completion. The attachment to this letter provides those test
results.

To the best of my knowledge and belief, the statements
contained in the Attachment are true and correct. In some respects,
these statements are not based on my personal knowledge but upon
information furnished by other Commonwealth Edison employees,
consultants and contractors. Such information has been reviewed in
accordance with Company practice and I believe it to be reliable.

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PDR ADOCK 05000454
Q PDR

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Please address any questions that you or your staff may have concerning our response to IE Bulletin No. 83-05 to this office.

One (1) signed original with Attachment is being sent directly to the USNRC Document Control Desk in Washington, DC for reproduction and distribution as requested in the Bulletin.

Respectfully,

P. L. Barnes

P. L. Barnes
Nuclear Licensing Administrator

Attachment

cc: U.S. NRC, Document Control Desk
Washington, DC 20555

RIII inspectors - BY

SUBSCRIBED and SWORN to
before me this 10th day
of January, 1984

Rosalia A. Penta
Notary Public

6026N

ATTACHMENT

BYRON STATION UNIT 1

Supplemental Response To IE Bulletin No. 83-05
"ASME Nuclear Code Pumps and Spare Parts
Manufactured by the Hayward Tyler Pump Company"

Item 1.c.: Results of pump performance test on Hayward Tyler booster pump (1SX04P) taken after the first 48 hour run:

Suction Pressure	68 psig
Discharge Pressure	115 psig
Essential Serv. Water Fluid Temperature	48°F
Flowrate	406 gpm
Bearing Temperature	91°F
Vibration Signatures	Vibration acceptable
Leakage on Mechanical Seal	No leakage

The pump developed a differential pressure of 47 psid pumping water at a temperature of 48°F. The developed head was calculated as follows:

$$(115-68)\text{psig} \times 2.307 \frac{\text{ft}}{\text{psig}} = 108 \text{ ft. H}_2\text{O}$$

at a flowrate of 406 gpm

This compared to the operating point of 420 gpm at 100 ft, proved the capability of the pump to provide rated flow and pressure. The bearing temperatures and vibration signatures taken were acceptable. Overall, the Hayward Tyler Booster Pump performed as designed.

Item 1.d: The system hydrostatic pressure test was performed and found to be acceptable.