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 CURTIS, N.W.                    Pennsylvania Power & Light Co.  
 RECIP. NAME                    RECIPIENT AFFILIATION  
 YOUNGBLOOD, B.J.               Licensing Branch 1

SUBJECT: Forwards clarification on SRV position indication, in response to NRC request at 810414 meeting. SRV acoustic monitoring sys will be safety grade. No backup sys necessary, per NUREG-0737.

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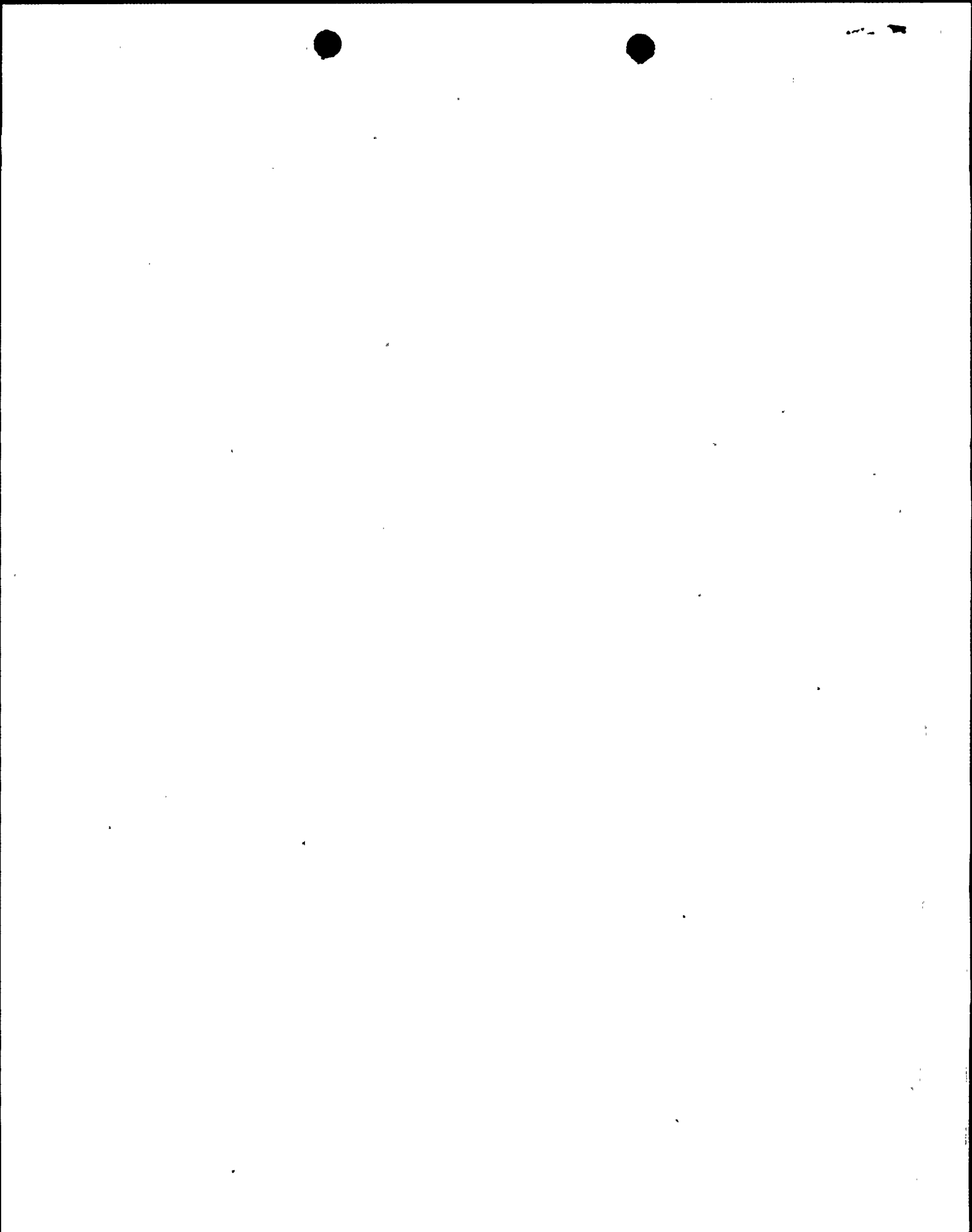
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	RAD ASSESS BR22	1	1	REAC SYS BR   23	1	1
	<u>REG FILE</u> 01	1	1	SIT ANAL BR    24	1	1
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April 15, 1981

Mr. B.J. Youngblood, Chief  
Licensing Projects Branch #1  
Division of Project Management  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Susquehanna Steam Electric Station  
Clarification on SRV Position Indication  
ER100450    File 841-12  
PLA-724

Dear Mr. Youngblood:

The attached section is provided in response to a request for clarification during a meeting with the NRC on April 14. The SRV acoustic monitoring system will be safety grade. Therefore no backup system is necessary, as stated in NUREG-0737.

Very truly yours,

*N. W. Curtis*

N.W. Curtis  
Vice President-Engineering and Construction-Nuclear

cc: R.M. Stark

bcc: N.W. Curtis  
W.E. Barberich  
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*Boo's  
3/1*

PENNSYLVANIA POWER & LIGHT COMPANY

*A* 104170442

### X.1.24.3 Statement of Response

Each of the 16 safety/relief valves (SRVs) will be provided with a safety grade acoustic monitoring system to detect flow through the valve. An acoustic sensor will be mounted on the discharge piping, downstream of each valve.

The monitors will be grouped into two divisions with 8 valves each. Each division will have group annunciation for valve opening and for division loss of power. A red annunciator window will be provided for valve opening and white annunciator window for loss of power on a front row control panel for these annunciations. Each division will be powered from a 1E vital instrument bus.

Individual indications of an open valve will be provided by a red light (1 light for each valve) on front row control room panel 1C601. Individual indication of valve position is also available on a back row control room panel where the signal conditioning instruments are located.

The acoustic monitoring system is designed to be safety grade. This equipment has been qualified to IEEE-344-1975, IEEE-323-1974 and NUREG-0588 in accordance with the Commission order of May 23, 1980 (CLI-20-81).

Additional design information will be presented in Subsection 7.6.1a.4.3.7.

A human factors review of the front row control panel on which these indicators are located has been completed. This same analysis is being applied to the SRV position indicators which are being added to this panel.

Installation of this system will be complete by fuel load.

For modifications to plant systems and components such as the SRV position indicators, procedures are developed or revised as necessary and appropriate training is provided when the final design documents are approved and the equipment is available for use.

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