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       50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv      05000388  
 AUTH. NAME      AUTHOR AFFILIATION  
 FIELDS, J.S.      Pennsylvania Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION  
 SWERDON, P.M.      Pennsylvania, Commonwealth of

SUBJECT: Advises that util completed testing & selection of water conditioning chemicals for facilities. Betz Labs, Inc selected as prime vendor for chemicals. Table including chemicals listed in NPDES Permit PA 0047325 encl.

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Pennsylvania Power & Light Company

November 25, 1991

Two North Ninth Street • Allentown, PA 18101-1179 • 215/774-5151

Mr. Paul M. Swerdon  
Chief, Facilities and Construction Grants Section  
Water Quality Management  
Pennsylvania Department of Environmental Resources  
90 E. Union Street, 2nd Floor  
Wilkes-Barre, PA 18701-3296

SUSQUEHANNA STEAM ELECTRIC STATION  
NPDES PERMIT NO. PA 0047325  
SELECTION OF WATER TREATMENT CHEMICALS  
CCN 741326 FILE R9-8A  
PLE-14983

Dear Mr. Swerdon:

The Pennsylvania Power and Light Co. (PP&L) has completed testing and selection of water conditioning chemicals for the Susquehanna Steam Electric Station. Betz Laboratories, Inc. once again was selected as the primé vendor for these chemicals.

As discussed in letter PLE-14736, September 30, 1991, and in a recent telephone conversation, PP&L requested bids for water conditioning chemicals as a result of corporate requirements for rebidding major contracts. The attached table includes chemicals listed in NPDES Permit No. PA 0047325 and equivalent chemicals. In addition to the Betz chemicals, a Johnston Polymer Company, Inc. dispersant J-Poly 101C, will be used in the eight acre Emergency Service Water Spray Pond.

All new water conditioning chemicals are equivalent to those previously listed in the NPDES Permit. Other chemicals listed previously in the permit have not changed. If you have any questions or comments, please call me at (215) 774-7889.

Sincerely,

Jerome S. Fields  
Sr. Environmental Scientist-Nuclear

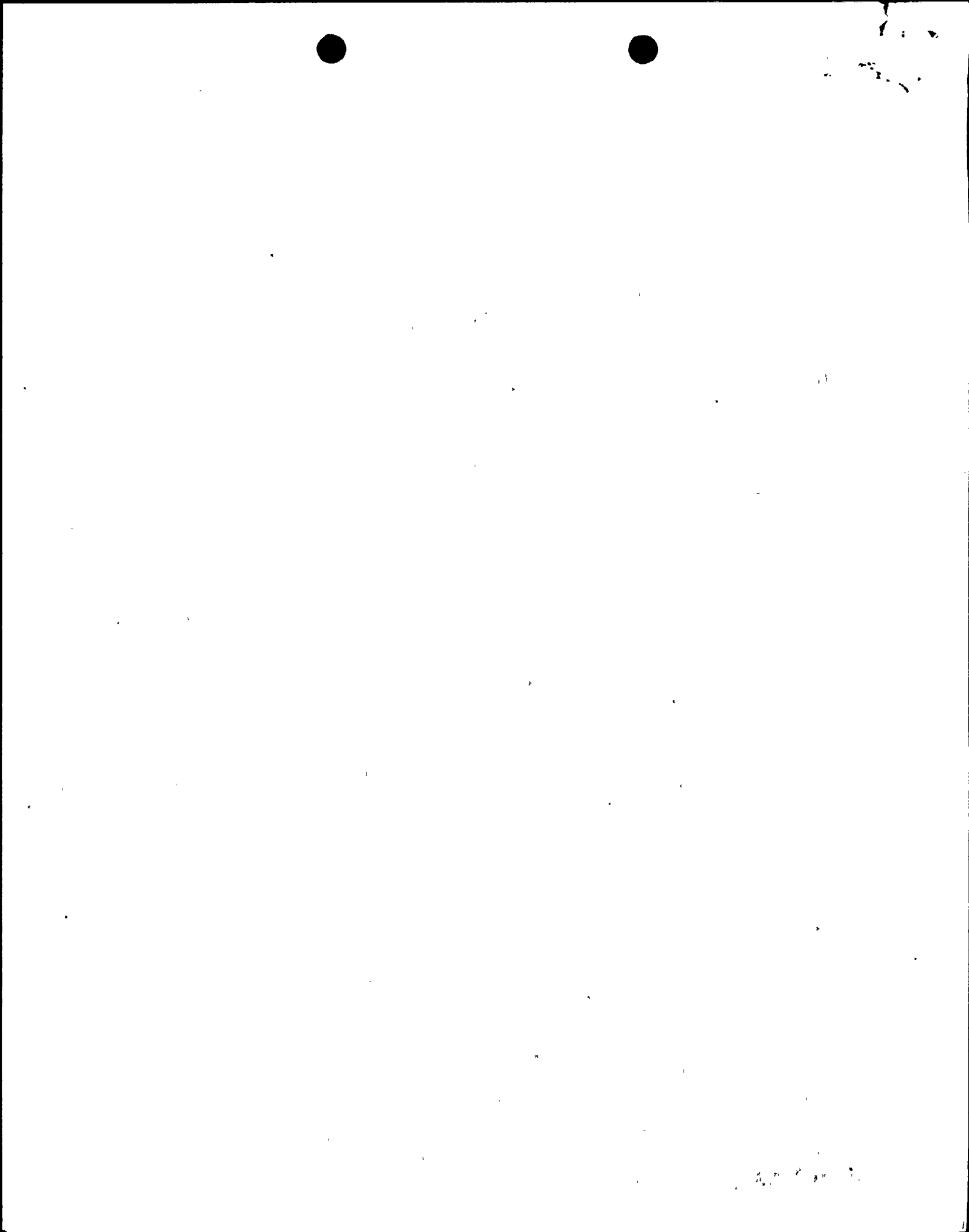
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Attachment

cc: NRC Document Control Desk  
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Mr. J. J. Raleigh, NRC Project Manager

9112100036 911125  
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**VI. INFORMATION AND ANALYSIS OF EFFLUENT QUALITY FOR OTHER POTENTIALLY TOXIC POLLUTANTS  
KNOWN OR EXPECTED TO BE PRESENT IN THE DISCHARGE**

(Read instructions carefully and use the tabular format and additional pages, where necessary, to present the required information)

Outfall	Chemical Substance or Compound	Reason for Presence in Discharge	Average Effluent Concentration (ug/l)	Analytical Detection Level (ug/l)
071	<p align="center"><b>APPROVED</b></p> <p>Betz Powerline 3450 Copolymer of 2-propenoic acid and 1,2-propanediol mono 2-proenoate and water</p>	This product is used as a cooling water dispersant for the maintenance of clean heat transfer surfaces.	1250-5000 ug/l as polymer, 7000 to 20,000 ug/l as product	1250 ug/l as polymer
071	<p align="center"><b>EQUIVALENT CHEMICALS</b></p> <p>Betz PPL08 Polymer</p>	This product is used to facilitate silt, sediment, iron and magnesium dispersion.	2200-3000 ug/l as polymer, 7300-10,000 ug/l as product	1750 ug/l as polymer
071	<p>J-POLY 101C Sodium Polyacrylate Cas #9003-04-7</p>	This product is used to facilitate silt, sediment, iron and magnesium dispersion.	500-1000 ug/l as polymer, 1000-2000 ug/l as product	200 ug/l as polymer

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071	<p align="center"><b>APPROVED</b></p> <p>Betz Powerline 3451 Blend of the copolymer in Betz Powerline 3450 and a scale inhibitor phosphonic acid, (1-hydroxyethylidene), Bis-. The phosphonic acid is also known as HEDP.</p>	This product is used as an alternate calcium carbonate scale inhibitor and cooling water dispersant.	500 to 1500 ug/l as HEDP, 7000 to 20,000 ug/l As product	200 ug/l as HEDP using field test
071	<p align="center"><b>EQUIVALENT CHEMICALS</b></p> <p>Betz PPL09 (1-Hydroxyethylidene) Bishosphonic Acid Cas #2809-21-4</p>	The product will be used as a calcium carbonate scale inhibitor.	1000 ug/l as HEDP, 3200 ug/l as product	200 ug/l as HEDP using field test

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