

# PRIORITY 2

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

SUBJECT: Requests approval to use listed chemical additives.

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NOTES: 05000387

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	NRC PDR	1 1		
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**Pennsylvania Power & Light Company**

January 17, 1995

Two North Ninth Street • Allentown, PA 18101-1179 • 610/774-5151

Mr. Paul M. Swerdon  
Chief, Facilities and Construction Grants Section  
Bureau of Water Quality Management  
Pennsylvania Department of Environmental Resources  
90 East Union Street, 2nd Floor  
Wilkes-Barre, PA 18701-3276

SUSQUEHANNA STEAM ELECTRIC STATION  
CHANGE IN CHEMICAL ADDITIVES  
NPDES PERMIT NO. PA0047325  
CCN 741326 FILE R9-8A  
PLE- 18383

Dear Mr. Swerdon:

Pennsylvania Power & Light Company (PP&L) is revising the water treatment program at the Susquehanna Steam Electric Station (SES) to optimize treatment for corrosion scaling, slime and fouling. In accordance with Special Condition Part C, #12 of NPDES permit No. PA0047325 and Permitting Guidance on the Conditioned Water Discharges and Use of Chemical Additives (Revised July 24, 1992), PP&L requests approval to use these chemicals. We understand that if a NPDES permit amendment is not required PP&L may proceed with the use of the proposed chemicals at usage rates provided the Pennsylvania Department of Environmental Resources (PaDER) 60 days after submission of this letter.

Information including Material Safety Data Sheets and biotoxicity data on new chemicals was provided to the PaDER with the renewal application for NPDES permit no. PA0047325 on July 15, 1994. Additional information was provided on October 17, 1994 and November 22, 1994.

The enclosed table lists these new chemical additives. If you have any questions please call me at (610) 774-7889.

Sincerely,

Jerome S. Fields  
Sr. Environmental Scientist-Nuclear

Enclosure

Copy to:

- ☐ NRC Document Control Desk
- NRC Region I
- Mr. C. Polusny, NRC Project Manager
- Mr. D. Agustini, PaDER

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**CHANGE IN CHEMICAL ADDITIVES  
NPDES PERMIT NO. PA0047325  
SUSQUEHANNA STEAM ELECTRIC STATION**

**CHEMICAL ADDITIVES, OUTFALL**

**ADDITIONAL INFORMATION**

Powerline PPL08, Outfall 071	Betz Laboratories
Powerline PPL09, Outfall 071	"
Betz C-70, Outfalls 071 & 079	"
Slimicide C-94, Outfall 071	"
Powerline 3200, Outfall 072	"
Powerline PPL10, Outfalls 071 & 072	Betz Labs; In system conc. 10,000,000 - 15,000,000 ug/l; effluent conc. 1,650 - 2,470 ug/l; 96 Hr.LC50 for Flathead minnow (132 mg/l) & 48 Hr.LC50 for Daphnia Magna (64 mg/l)
Betz 860, Outfall 071	Betz Labs; In system conc. 40,000 ug/l; effluent conc. 40,000 ug/l
Powerline 3680, Outfall 071 & 079	Betz Labs
Prefilm 108L, Outfalls 071 & 072	Betz Labs; In system conc. 100,000,000 ug/l; effluent conc. 16,500 ug/l
Powerline PPL11, Outfall 071	Betz Labs
Macrotrol 9210, Outfall 071	Nalco Chemical Co.
Nalco 1315, Outfall 071	"
Slimicide C107, Outfalls 071 & 072	Betz Labs; glutaraldehyde

## OUTFALLS

- Outfall 071, Cooling Tower Blowdown
- Outfall 072, Service and Administration Building Low Volume Sump
- Outfall 079, Sewage Treatment Plant

## NOTES

Powerline PPL10, and Prefilm 108L are used in closed cooling water systems. When chemical additives are no longer effective or contain impurities they are discharged. The maximum volume discharged at one time is expected to be 1,500 gallons and it is drained into the 9,100,000 gallon cooling system. It is then discharged through the Cooling Tower Basin to Outfall 071.

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