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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.
 RECIPIENT AFFILIATION
 CROWLEY, K. Pennsylvania, Commonwealth of

SUBJECT: Forwards revised discussion of internal Outfall 171 discharges included in Section C-1 renewal permit application PA 0047325.

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	OGC/HDS2	1 0	RGNI DRSS/RPB	1 1
EXTERNAL:	LITCO AKERS, D	1 1	NOAC	1 1
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Pennsylvania Power & Light Company

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February 24, 1995

Ms. Kate Crowley
Regional Water Quality Manager
Pennsylvania Department of Environmental Resources
90 East Union Street, 2nd Floor
Wilkes-Barre, PA 18701-3296

SUSQUEHANNA STEAM ELECTRIC STATION
RENEWAL APPLICATION FOR NATIONAL POLLUTION
DISCHARGE ELIMINATION PERMIT - UPDATE
PERMIT NO. 0047325
CCN 741326
PLE- 18476

FILE R9-8A

Dear Ms. Crowley:

Enclosed for your review is a revised discussion of Internal Outfall 171 discharges included in Section C-1 (additional information, page 6) of NPDES renewal permit application PA 0047325. Mop water from other than the radiologically controlled area of the station may be discharged through Outfall 171 into the Cooling Tower Blowdown (Outfall 071).

Enclosed are three copies of this revision. If you have any questions, please contact me at (610) 774-7889.

Sincerely,

Jerome S. Fields
Sr. Environmental Scientist - Nuclear

Enclosures

Copy to: (with Renewal Application)
NRC Document Control Desk
NRC Region I
Mr. C. Polusny, NRC Project Manager

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TABLE 3
CLOSED COOLING WATER TREATMENT CHEMICALS

<u>CHEMICAL</u>	<u>USE</u>	<u>CONCENTRATION RANGE (ppm)</u>	<u>CONCENTRATION MAXIMUM (ppm)</u>
Sodium Nitrite	Mild Steel Corrosion Inhibitor	500 - 1500 as NO ₂	2,000
Methylbenzo Triazole (Toly Tri Azole)	Copper Corrosion Inhibitor	5-20	50
Isothiazoline	Microbiological Control Agent	35-200	250
Borate Salt	pH Buffering Agent (Diesels only)	50-150	300

INTERNAL OUTFALLS

- 171 - Liquid Radwaste discharge includes leakage and wastewater from the radiologically controlled area and also the Condensate Storage Tank bermed areas (Outfalls 077 & 078) as well as mop water from outside the radiologically controlled area. Prior to combining with Outfall 071, this wastewater is passed through various treatment processes to reduce the concentration of radioactive materials. Approximately 99% of liquid radwaste is treated by one of two processes: filtration followed by ion-exchange demineralization, or ion-exchange demineralization followed by microstraining. The remaining 1% of liquid radwaste is the laundry drainage system, which receives drainage from equipment washdown stations and personnel decontamination facilities in the radiologically controlled area. This liquid is passed through a cartridge filter to remove solids prior to discharge. Currently, all laundry is sent to an outside contractor for cleaning. Miscellaneous wastes discharged through this system include service water leakage, mop water from cleaning, and leakage from various pumps and valves.
- 271 - Waste Filter Bypass is no longer used and PP&L requests that this internal outfall be eliminated.



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