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 AUTH. NAME AUTHOR AFFILIATION
 FIELDS, J.S. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 SWERDON, P. Pennsylvania, Commonwealth of,

SUBJECT: Provides addl info re NPDES Permit Application PA 0047325, in response to 841022 telcon questions. Info includes revised water use diagram as well as info updating permit application.

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November 12, 1984

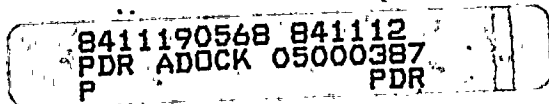
Mr. Paul Swerdon
Chief, Facilities Section
PA Department of Environmental Resources
90 East Union Street, Second Floor
Wilkes-Barre, PA 18701

SUSQUEHANNA STEAM ELECTRIC STATION
NPDES PERMIT APPLICATION SUPPLEMENTAL INFORMATION
PERMIT NO. PA 0047325
CCN 741326
FILE 012-3
PLE-6239

Dear Mr. Swerdon:

In response to questions posed by Mr. Dino Augustini of your staff during our phone conversation of October 22, 1984, the Pennsylvania Power and Light Company (PP&L) is submitting additional information regarding the NPDES Permit Application (No. PA 0047325) for the Susquehanna Steam Electric Station. This information includes a revised water use diagram as well as information updating our permit application. Responses to Mr. Augustini's questions are as follows:

1. Attached is a revised Water Use Diagram which reflects changes that have occurred in plant operation and wastewater discharges since the March, 1984 permit application. Temporary bypasses are shown on the diagram with dotted lines.
 - A. As stated in the March, 1984 permit application, the clarifier underflow from the raw water treatment plant is being directed to the circulating water system (circwater), due to waste filter operational problems. Once this system becomes operational, this underflow will be directed to the waste filter where the sludge will be removed for disposal and the water portion returned to circwater.
 - B. Backwashes from two filters, a gravity sand filter and a carbon filter used in the raw water treatment plant, combine with the temporary bypass of the waste filter prior to discharge to circwater. These backwashes were originally intended to be returned to the raw water clarifier. However, due to operational changes these backwashes are now being directed to circwater. Since these changes are not finalized, these filter backwashes may be routed back to the raw water clarifier in the future.



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- C. Wastewater from chemical waste treatment (neutralization basins) will not be directed to the waste filter as previously indicated. These basins are used to neutralize acids and caustics used in regenerating the demineralizers. Since this effluent contains little suspended solids, this waste stream will be discharged directly to circwater rather than placing an unnecessary hydraulic load on the sludge filter.
2. Mr. Augustini suggested the use of the combined outfall, 075, as a compliance monitoring point rather than monitoring and reporting each contributing outfall (072, 073, 074, 076, 077, 078) separately. As stated in the March, 1984 permit application, this combined outfall is primarily for storm water drainage. If this outfall was used as a compliance monitoring point, PP&L would then be concerned about being required to meet low volume waste limits (especially TSS of 30 mg/l) on storm water runoff. Additionally, since each sump is sampled prior to discharge, monitoring at the combined outfall would be redundant and, therefore, PP&L would prefer to continue using each individual sump as a discharge monitoring point.
 3. As stated in the March, 1984 permit application, at the time of sampling at outfall 075 there were no discharges from any of the contributing outfalls. Therefore, the analyses for 075 represent primarily storm water and site runoff.
 4. Auxiliary Boilers:
 - A. Two temporary waste streams previously directed to circwater and identified in the March, 1984 permit application (Supplement to Item II.B. - Further Description of Outfalls - pg. 6) have been removed. The Unit 2 temporary auxiliary boiler is no longer in service and has been dismantled. Therefore, blowdown from this boiler and backwash from a filter supplying water to demineralizers for this boiler no longer exist.
 - B. The Unit 1 auxiliary boiler, however, is a permanent structure and its blowdown discharges to the radwaste discharge line prior to discharge to the cooling tower blowdown line. This boiler is used to provide steam to radwaste evaporators (for radwaste volume reduction) and to preheat various plant systems prior to startup.
 5. The deicing line shown on the water use diagram supplies warm water from circwater to a series of nozzles located just inside the intake structure. During cold weather operations, water is sprayed on the traveling bar screens and the intake channels to remove or prevent ice formations. This system represents no discharge to the river, since any water used for deicing purposes is drawn further into the intake structure and then pumped back to the cooling towers with the intake water.

November 12, 1984

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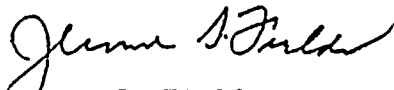
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PLE- 6239
FILE 012-3

6. The temporary butter tank listed under outfall 078 on Form 2C and under the Supplement to Item II.B. - Further Description of Outfalls - pg. 7, has been removed. Thus, there will be no discharges from this tank.
7. Monitoring at outfall 070, the S-2 sedimentation pond, can be accomplished by sampling at the sedimentation basin's overflow pipe.
8. Makeup to the spray pond normally occurs directly from the intake line as shown on the water use diagram. However, makeup to the spray pond can also occur from the cooling tower blowdown line.

I hope this information proves useful in the preparation of Susquehanna's NPDES Permit. If you have any questions regarding this information, please contact me at (215) 770-7889.

Sincerely,



Jerome S. Fields
Sr. Environmental Scientist-Nuclear

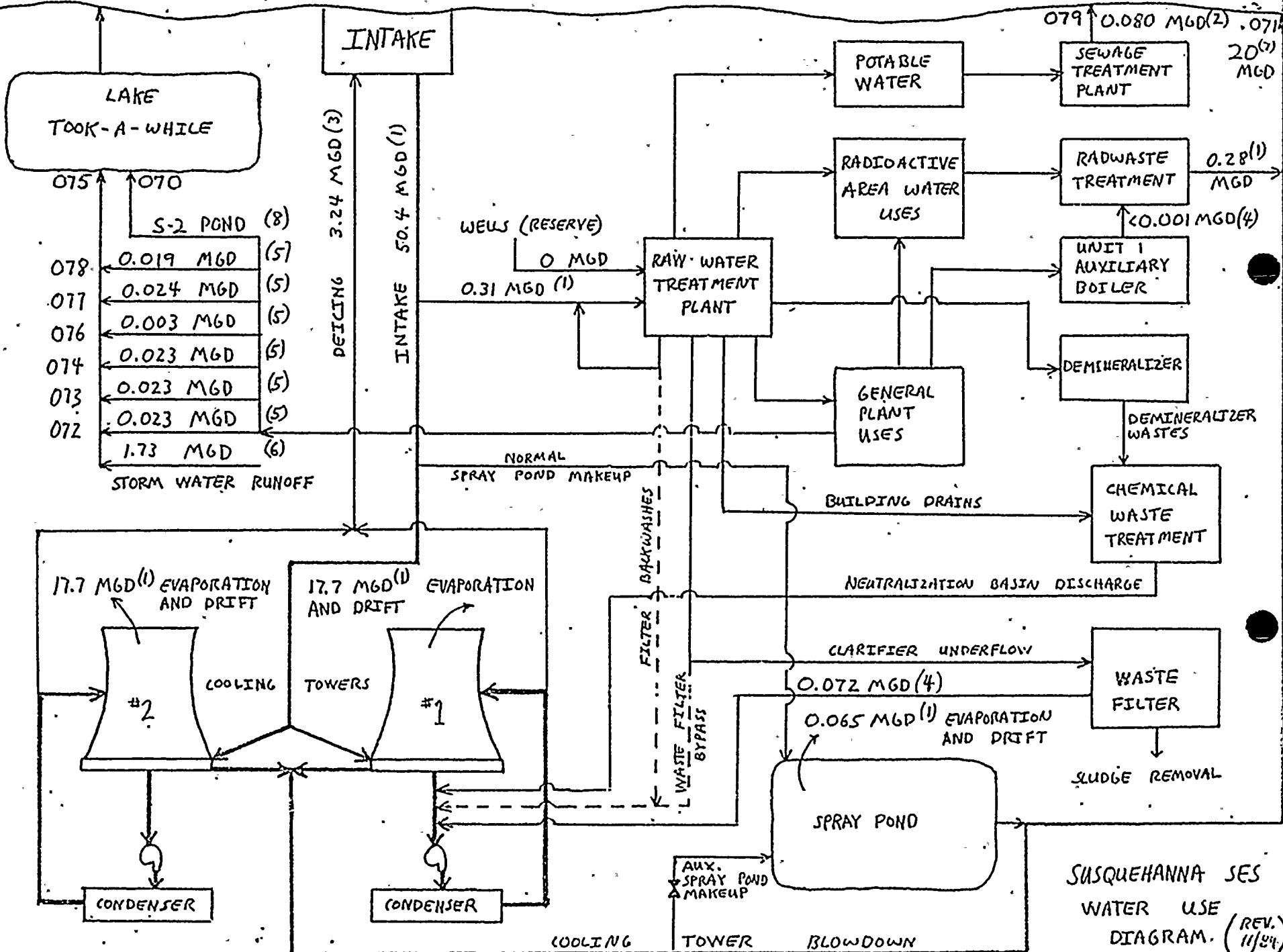
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dasltk002116a

Attachment

cc: A. Schwencer - NRC
D. Augustini - PA DER

SUSQUEHANNA RIVER



SUSQUEHANNA SES
WATER USE
DIAGRAM. (REV. 11/84)