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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388
 AUTH. NAME AUTHR AFFILIATION
 CURTIS, N.W. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 YOUNGBLOOD, B.J. Licensing Branch 1

SUBJECT: Submits info re number & types of respiratory equipment for facility.

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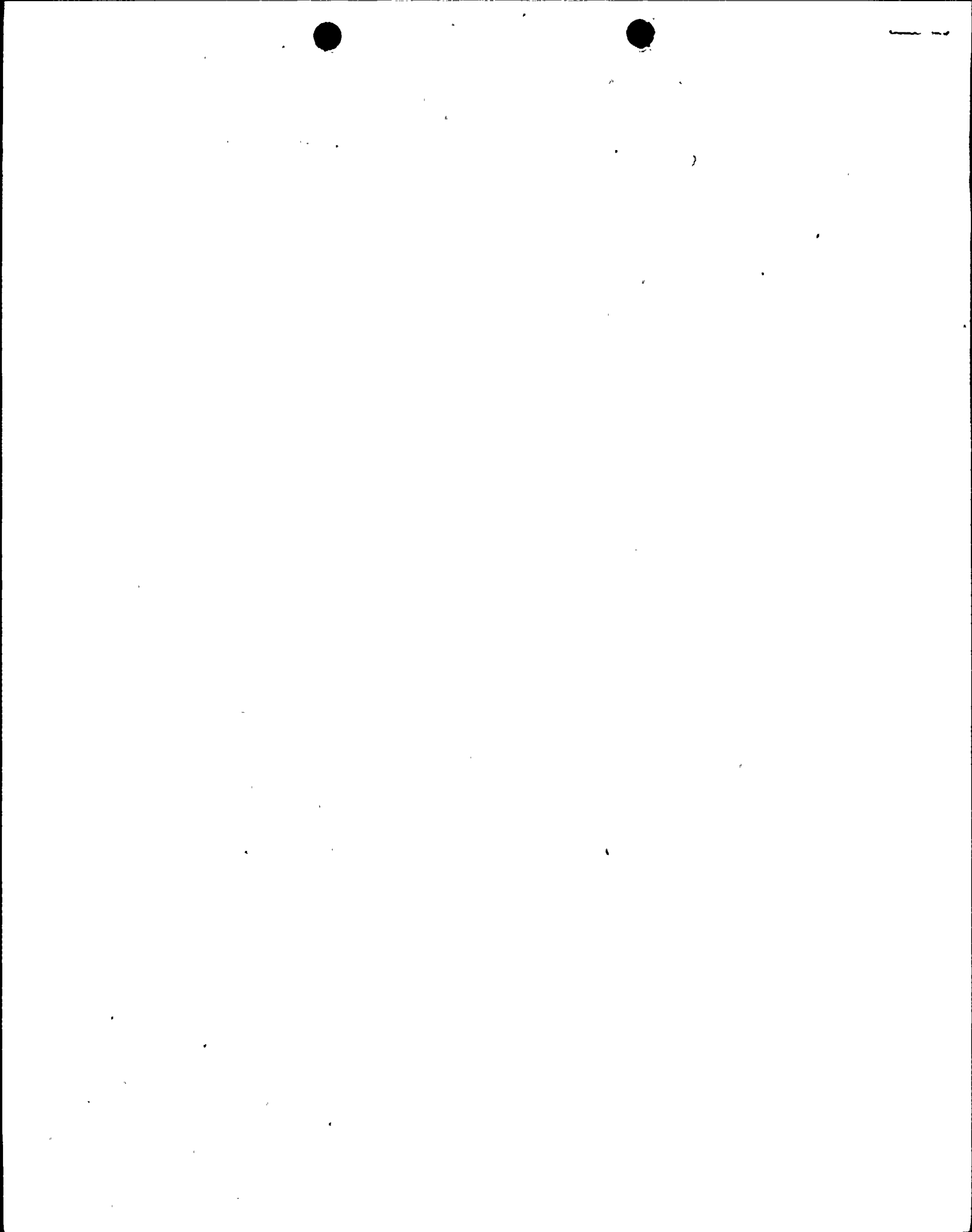
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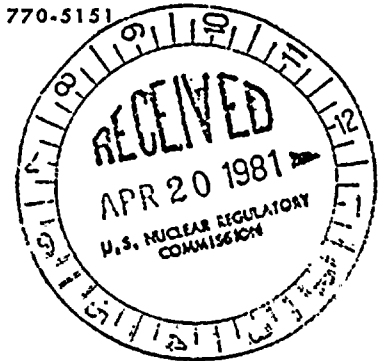
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PP&L

TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101 PHONE: (215) 770-5151

NORMAN W. CURTIS
Vice President-Engineering & Construction-Nuclear
770-5381



April 16, 1981

Mr. B. J. Youngblood
Licensing Branch #1
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Susquehanna Steam Electric Station
Respirator Types
ER100450 File 841-2
PLA-728

Docket Nos. 50-387 and 50-388

Dear Mr. Youngblood:

Regarding the numer and types of respiratory equipment for the Susquehanna SES, the following is for your use and guidance:

1) MSA - Self Contained Breathing Apparatus

Self Contained - Storage

Security	30
Health Physics	30
Operations	Included in HP
Emergency Teams	20
	<hr/>
	80 TOTAL

2) MSA - DUOFLO Full Face Respirator Combination
Filter Cartridge/Supplied Breathing Air,
Model 401 Pressure Demand.

Assume that the normal refueling outage is the worst case and if sufficient numbers are available for that case normal operations will be adequately covered. Assume only one unit is in outage/refueling at any one time.

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<u>Personnel</u>		<u>Respirator Use Rate</u> (@ 2/day)
Station Maintenance Force	80	160
Company Maintenance Force	200	400
Contractor Maintenance Force	400	800
Company Health Physics Personnel	18	36
Contractor Health Physics Personnel	36	72
	<hr/>	
	734	X2 = 1468

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It is unreasonable to assume that each person working, is working in a respirator and that he uses two respirators per shift. A more reasonable yet conservative estimate is that 1/3 of the total work force could use a respirator each day. To permit allowance for loss of cleaning, testing, maintenance and distribution a three day supply should be on hand. This dictates a total supply of 1500 respirators.

It is estimated that a crew could successfully clean, maintain, and prepare for reissue 25 respirators per hour or 600 per day. As such the daily output should exceed the daily use rate.

PP&L will maintain a total stock of 1500 Filter/Supplied air respirators which will be adequate to provide for:

1. All personnel in respirators at any one time.
2. All personnel using two respirators per day.
3. Normal outage use rate.

In addition to this, approximately 300 respirators will be dedicated to support of an emergency in emergency kits and storage.

- 3) To support the cleaning, repair, maintenance and testing Susquehanna SES will have:
 1. Respirator Test Head.
 2. Cleaning Facilities.
 3. Survey, inspection, and maintenance facilities and personnel.

Very truly yours,



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

cc: R. M. Stark

bcc: N. W. Curtis
W. E. Barberich
B. A. Snapp
C. T. Coddington
R. J. Shovlin

