

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
DIVISION OF WATER SUPPLIES
BRIEF DESCRIPTION FORM

DATE PREPARED	12/4/85
DATE REVISED	2/17/89

For Department Use Only

ESTABLISHMENT INFORMATION:

A) (NAME OF SYSTEM) Susquehanna Steam Electric Station		(COUNTY) Luzerne
(BUSINESS ADDRESS) P.O. Box 467		(TELEPHONE NUMBER) (717) 542-3800
(MUNICIPALITY) Berwick, PA	(ZIP CODE) 18603	(DATE STARTED OPERATION) June 8, 1983
B) (OWNER OF SYSTEM) Pennsylvania Power & Light		C) (OPERATOR OF SYSTEM)
(ADDRESS) Two North Ninth Street		(ADDRESS)
(MUNICIPALITY) Allentown, PA	(STATE)	(MUNICIPALITY) (STATE)
(ZIP CODE) 18101-1179	(TELEPHONE NUMBER) (215) 770-7889	(ZIP CODE) (TELEPHONE NUMBER)

II. SERVICE AREA CHARACTERISTICS:

TYPE	NO. OF CUSTOMERS	BEGIN SEASON	END SEASON
N	1200	N/A	N/A

COMMENTS: This system serves the main office areas and various outbuildings for the Susquehanna Steam Electric Station

SOURCES:

TOTAL NUMBER OF SOURCES IN USE 2

USAGE

WELLS: (Name) TW- 2 Site Well System, PWS ID 2400994 P

DIAMETER 8 (IN.), DEPTH 75 (FT). YIELD 216,000 (GPD), DATE FIRST USED September 1974

SPRINGS: (Name) N/A

YIELD _____ (GPD), ENCLOSED (YES NO), DATE FIRST USED _____

SURFACE SOURCE: (Name) N/A

AMOUNT WITHDRAWN _____ (GPD) DATE FIRST USED _____

IV. TREATMENT:

SOURCE	TYPE	COAG.	SED.	FILT.	SOFT.	IRON REM.	CARBON.	AER.	DISINFECTION			NO TRTMT.
									CHLORINE	IODINE	U.V. LIGHT	
SOURCE A	Wells					X			X			
SOURCE B												
SOURCE C												

CHEMICALS:

TRADE NAME	Control Range DOSAGE	PURPOSE
Sodium Hypochlorite	Free Chlorine 0.2-3.0 mg/L	Used to precipitate iron prior to green sand filter and to maintain chloride residual in distribution system
Sodium Hydroxide	pH 6.8-7.4	Used to adjust pH for corrosion control

COMMENTS: _____

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES
 DIVISION OF WATER SUPPLIES
BRIEF DESCRIPTION FORM

DATE PREPARED 12/4/85
DATE REVISED 2/17/89

For Department Use Only

WATER QUALITY:

ATTACH TO THIS REPORT COPIES OF THE ANALYSES OF THE QUALITY OF YOUR RAW WATER AS CONDUCTED BY A LABORATORY CERTIFIED BY THE ENVIRONMENTAL PROTECTION AGENCY. THE ANALYSES MUST NOT BE MORE THAN THREE (3) MONTHS OLD AND AS A MINIMUM SHALL CONSIST OF: NITRATE (AS NITROGEN), COLIFORMS, AND TURBIDITY. IF MORE THAN ONE SOURCE IS BEING USED, A COPY OF THE ANALYSES FOR EACH SOURCE MUST BE INCLUDED.

VI. STORAGE FACILITIES:

A) TYPE Ground Level Tank B) EFFECTIVE VOLUME 374,730 (gallons)
 C) CONSTRUCTION MATERIAL Steel D) DATE INSTALLED 1974

COMMENTS: Total capacity of tank is 554,730 gal. but 180,000 is reserved for fire protection. Tank is at atmospheric pressure.

VII. PUMPING FACILITIES: (OTHER THAN WELL PUMPS)

A) CAPACITY 250 (gpm) B) DATE INSTALLED 1980 (replaced)
 C) PURPOSE Two redundant pumps with 100% capacity are used to maintain pressure and supply demand.

VIII. DISTRIBUTION SYSTEM:

PIPE SIZES (IN.)	MATERIAL	AMOUNT (FT.)	AGE
<u>1/2 to 8</u>	<u>Carbon Steel</u>	<u>30,000 E</u>	<u>1 - 15 years</u>

COMMENTS: _____

IX. OPERATIONS:

- A) DOES THIS WATER SUPPLY SYSTEM HAVE A MEANS OF MEASURING THE AMOUNT OF WATER BEING USED FROM EACH SOURCE?
 YES NO IF YES, HOW? Totalizing propeller type flow meter
- B) WHAT IS THE AVERAGE DAILY VOLUME OF WATER BEING USED? 30,000 - 45,000 (gpd)
- C) WHAT IS THE MAXIMUM VOLUME OF WATER USED IN ANY ONE DAY? 80,000 (320,000 during possible temporary backup to process water supply) (gallons)
- D) DOES THIS SYSTEM OBTAIN OR PROVIDE WATER TO ANY OTHER WATER SUPPLIER? YES NO
 IF YES, IDENTIFY THE SYSTEM. _____
- E) HAS THIS WATER SUPPLY SYSTEM EVER EXPERIENCED A SHORTAGE OF WATER? YES NO IF YES, EXPLAIN _____

- F) WHEN WAS THE LAST TIME MAINTENANCE OR REPAIRS WERE MADE TO YOUR SYSTEM? January 1989
 WHAT DID THIS INVOLVE? Install iron filter, chlorine injection, and tie-in station domestic water distribution system.
- G) HAS YOUR RAW WATER EVER BEEN TESTED FOR OTHER WATER QUALITY PARAMETERS THAN THOSE LISTED IN SECTION V? _____
 IF SO, WHAT WERE THE PARAMETERS AND THE RESULTS. _____

PARAMETER	RESULTS	DATE SAMPLED	SAMPLING POINT
<u>*See attached</u>	<u>analytical results for volatile organic compounds</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

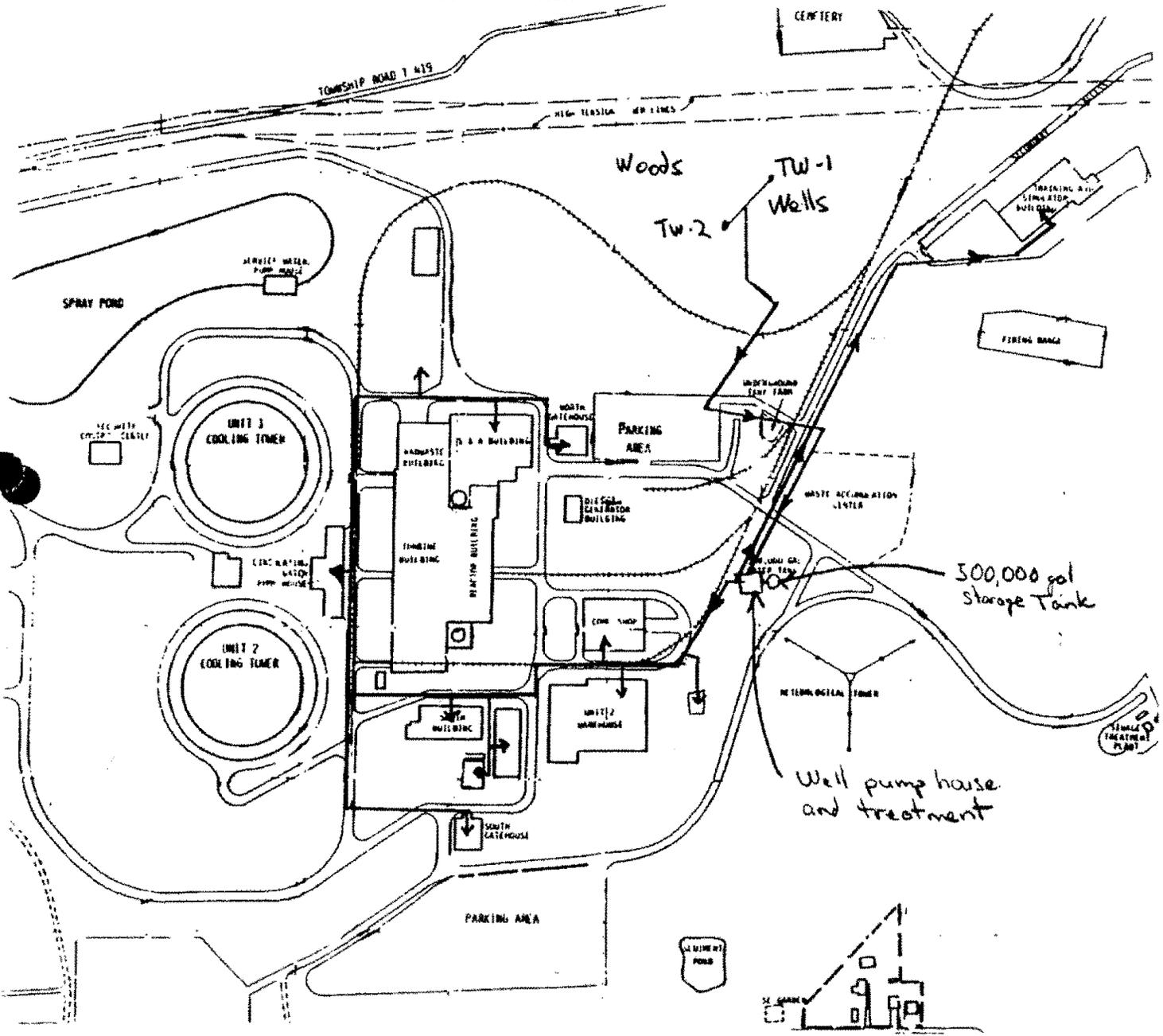
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES
 DIVISION OF WATER SUPPLIES
BRIEF DESCRIPTION FORM

DATE PREPARED 12/14/85
DATE REVISED 2/17/89

For Department Use Only

WATER SUPPLY SYSTEM LAYOUT:

PROVIDE A SKETCH OF THE WATER SUPPLY SYSTEM SHOWING THE LOCATION OF EACH SOURCE, TREATMENT AND/OR STORAGE FACILITY AS IT RELATES TO YOUR ESTABLISHMENT AND THE AREA SERVED BY THE WATER SYSTEM. TO THE EXTENT POSSIBLE ILLUSTRATE THE PROPERTY LINES, BUILDINGS, AND SIGNIFICANT LAND FEATURES WHICH WILL HELP THE DEPARTMENT TO ASSESS THE VULNERABILITY OF YOUR SYSTEM TO CONTAMINATION.



NAME OF PERSON FILLING OUT FORM

Curtis Saxton

SIGNATURE

TITLE

Environmental Specialist

DATE

BRIEF DESCRIPTION FORM

Continuation Page

Revised 2/17/89

III. Continued

Wells: TW-1, PWSID 2400994 Usage: R

Diameter 8 (in.), Depth 75 (ft) Yield 72,000 (GPD),

DATE: September 1974

X. Continued.

Additional details of the Site Well System are provided on the following drawings supplied with the original Brief Description Forms provided 12/4/85.

E-106222-2	(M-117 Sh 2 - P&ID Raw Water Treatment)
E0106227-1	(M-122 Sh 1 - P&ID Fire Protection)
E-105002	(C-1 Plant Location Site Plan)
E-105151	(A-3 Site Arrangement)
E-105178	Sheets 1 thru 11 (C-40 thru C-50 - Finish Grades and Yard Piping)
E-105179	(C-51 - Finish Grades and Yard Piping)
FCI-C41	(Wells and Water Supply Line)
ZN-021	(Construction Facilities Water and Sewer Lines)
FCI-N-29	(Bleed Line for 50 G.P.M. Well)
FCI-C-14	(Water well Supply Line)
FCI-C-58	(X-sect at Wells)

chmsb8325a(25)