GENERAL NOTES:

1. THE SYSTEM SCHEMATIC REFLECTS THE IMPLEMENTATION OF THE SYSTEM FUNCTIONAL CONTROL LOGIC DIAGRAM AND APPLICABLE CRITERIA REQUIREMENTS. THE FUNCTIONAL CONTROL LOGIC DIAGRAM AND ITS REFERENCED DOCUMENTATION FOR THE SOLID STATE CONTROL SYSTEM AND S&Q CORP DRAWINGS MUST BE USED IN CONJUNCTION WITH THE SYSTEM SCHEMATIC IN EVALUATING CIRCUIT OPERATION.

   PORTIONS OF THE SYSTEM SCHEMATIC ARE SHOWN OUT-OF-FUNCTION. THESE OUT-OF-FUNCTION PORTIONS ARE SHOWN FOR INFORMATION, WITH REFERENCES PROVIDED TO THE DOCUMENT WHICH CONTROLS THE EQUIPMENT CONFIGURATION.

2. INTERFACE NUMBERS WERE ASSIGNED TO EACH POINT OF INTERFACE WITH THE SSCS. THESE NUMBERS APPEAR ON THE CONTROL LOGIC, SSCS INTERFACE DIAGRAM, AND THIS SCHEMATIC. THEIR PURPOSE IS TO FACILITATE MOVEMENT BETWEEN THESE DOCUMENTS.

3. SSCS CABLE SHIELDS ARE TERMINATED ON THE SHIELD GROUND BUS LOCATED ADJACENT TO THE TERMINAL BLOCKS. TERMINATION POINTS ON THE GROUND BUS ARE NOT DEDICATED TO A SPECIFIC CABLE.

4. ALL UNID AND CABLE DESIGNATIONS ARE PRECEDED BY 1YQ UNLESS OTHERWISE SHOWN.

5. SEE SYSTEM YQ CABLE PROGRAM FOR COMPLETE CABLE INFORMATION INCLUDING SPARE CONDUCTORS. ONLY THOSE CONDUCTORS USED ARE SHOWN.

6. SPECIFIC ENTRANCES ARE INDICATED FOR CABLES ENTERING EQUIPMENT THAT HAVE MORE THAN ONE ENTRANCE PER DIVISION OF SEPARATION. EXAMPLE: ENT 8

7. JUMPER DESIGNATIONS ARE FORMED BY PREFIXING THE J NUMBER SHOWN ON THE SCHEMATIC WITH THE UNID OF THE ENCLOSURE AND SYSTEM DESIGNATION YQ. EXAMPLE: 1IX-IS-007-8-YQJ1.

REF DWGS AND DOCUMENTS:

SAMPLE AND WATER QUALITY DESIGN CRITERIA	N4-YQ-0740
WATER QUALITY INSTRUMENTATION	5GW0980-YQ
FUNCTIONAL CONTROL LOGIC DIAGRAM SAMPLING AND WATER QUALITY	2GW0900-YQ
SCHEMATIC DIAGRAM ENGINEERED SAFETY FEATURED ACTUATION SYSTEM	5GW1640-IE
250V DC NORMAL PWR DISTR SYSTEM	5GW0640-EP
SYS SCHEMATIC WAKE UP & PURIFICATION SYSTEM	5GW1740-NV
SYS SCHEMATIC STEAM GENERATOR STARTUP AND RECIRCULATION SYSTEM	5GW1640-CR
WIRING DIAGRAMS, LOCAL CONTROL/TEST STATIONS. STANDARD DRAWING	5GB0677-JL
480V MOTOR CONTROL CENTER COMPARTMENT TYPICALS	5GW0747-RP
SCHEMATIC DIAGRAM ANNUNCIATOR AND SEQUENTIAL EVENTS RECORDING SYSTEM	5GW1640-IA
SCHEMATIC DIAGRAM STATUS, ENVIRONMENTAL AND ALARM MONITORING SYSTEM (SEAMS)	5GW0640-IS
WIRING DIAGRAM PWR DISTRIBUTION RELAY CABINET	5AW1651-JT
WIRING DIAGRAM PWR DISTRIBUTION RELAY CABINET	5AW1661-JT
WIRING DIAGRAM LOCAL INSTRUMENTATION PANEL	5TB0677-JL

S&Q CORP WATER QUALITY SAMPLING, ANALYSIS, INSTRUMENTATION & CONTROL SYSTEMS, TVA CONTRACT NO. 77K3-87395.

UNIT 1 TITRATION PNL CONTROL WIRING DIAGRAM	S&Q DWG E2-1 THRU 3
TITRATION PNL 1&2 POWER & LIGHTING	S&Q DWG E2-7
HOT SAMPLE ROOM CUBICLES	S&Q DWG E2-8
HOT SAMPLE ROOM CHILLER	SENTRY DWG 5019510-4-4

ELECTROMAX INSTRUMENTS INC., TVA CONTRACT NO. 79KJ2-822988.

INTERNAL/EXTERNAL CONNECTIONS LARGE ISOLATOR CABINET	1750202D-300

SYMBOLS:

MON / XXXXX	INTERFACE TO STATUS ENVIRONMENTAL AND ALARM MONITORING SYS (SEAMS) (XXXXX- POINT NO)
AN / XXXX	ANNUNCIATOR SYSTEM INTERFACE (XXXX- POINT NO)
AN XXXX	S&Q CORPORATION SAMPLING UNIT ANNUNCIATOR
I	ISOLATOR

COMPANION DRAWINGS
5GW1740-YQ-02 THRU
5GW1740-YQ-06

Docket # 50-438
Control # 8304050536
Date 3-25-83 of Document
REGULATORY DOCKET FILE

PRC APERTURE CARD

REV	ECR NO.	DATE	DSGN	DFTG	CHK	SUPV	CHEM	HSP	SURV	RECD	APPR
2	S1	10-15-82	JAH	TLS	HES	JS	WTP	-	WTP	WLS	SWH
MINOR CHANGE											
1	S1	3-8-79	JAH	TLS	TSE	JS	WTP	-	WTP	WLS	SWH
MINOR CHANGES PER S1											

DSGN J.A. Hardin 8/2 W. Pfeifer
DFTG Ty Stelle
CHK Thomas E. Snyder
SUPV W.R. Waters
HSP -
OWNER W. R. Abbott 1/20

SCALE EXCEPT AS NOTED

GENERAL
UNIT 1

SYSTEM SCHEMATIC
SAMPLING & WATER QUALITY SYS

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN
Q

SUBMITTED	RECOMMENDED	APPROVED
W. R. Abbott/jm	[illegible]	R.M. Hodges

KNOXVILLE | 8-1-78 | 88 | E | 5GW1740-YQ-01 R2

RECORD DRAWING AS CONSTRUCTED.

REVIEWED
RC (CIVIL) N/A
RE (ELEC) N/A
RM (MECH) N/A

INSPECTED AND APPROVED FOR ISSUE

PRINT
SIZE
DR OR PROJ MS EE CE AD CB ED MB MP BR BL PC
PRINTS REQD-S