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WHITE,L.D. Rochester Gas & Electric Corp.
RECIP.NAME RECIPIENT AFFILIATION
ZIEMANN,D.L. Operating Reactors Branch 2

SUBJECT: Responds to Item III-1,NRC question re design & const for systematic evaluation program seismic review,Response deals w/details of block walls throughout plant,Two oversized drawings encl.

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LEON D. WHITE, JR.
VICE PRESIDENT

TELEPHONE
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June 6, 1979

Director of Nuclear Reactor Regulation
Attention: Mr. Dennis L. Ziemann, Chief
Operating Reactors Branch No. 2
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Systematic Evaluation Program Seismic Review
R.E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Mr. Ziemann:

This letter supplements our earlier letters in responding to questions raised by the NRC Seismic Review Team on the design and construction of Ginna Station. Item III-1 identified in our letter of May 22, 1979 dealt with a request for information on details of the block walls throughout the plant. The attachment to this letter and the enclosed drawings respond to that request.

Very truly yours,

L.D. White, Jr.

Attachment

7906120406

A001
S 1/1
SEISMIC DRWGS TO:
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Response for NRC Question III-1

Reinforced concrete block walls are used in the Control Building and for the freight elevator shaft inside the Containment Building. Details of the reinforcement in the block walls are presented on drawings D-105-011 and D-105-012. Reinforcement details for the elevator shaft are the same as those presented for the Battery Room walls in the Control Building. All other block walls throughout the plant have reinforcement provided in the horizontal layers as follows:

1. Horizontal bed reinforcement is Dur-O-Wal standard truss design or Hohmann & Barnard, Inc. Trus-Mesh, of width two inches less than the nominal thickness of the wall. Bed reinforcing is laid in alternate courses, splice lapped six inches, cut and bent at corners. Over openings reinforcement is laid in the first and second bed joint and extends 24 inches on either side.
2. At junctions of partitions and walls, ties 1¼" x ¼" x 8" flats with two inch right angle bends at either end are inserted at 24 inch centers.
3. At steel columns, wall anchors 2" x ¼" flats with two inch right angle bends at either end are provided at 24 inch centers. Ties are extended approximately to the center of the block wall.

Concrete masonry blocks are hollow units, conforming to ASTM C90-66T, Grade G-II and mortar conforming to ASTM C270-64T, Type N.

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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FROM: US NRC/TIDC/Distribution Services Branch

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PRELIMINARY ATTACHMENT A Sheet A-4

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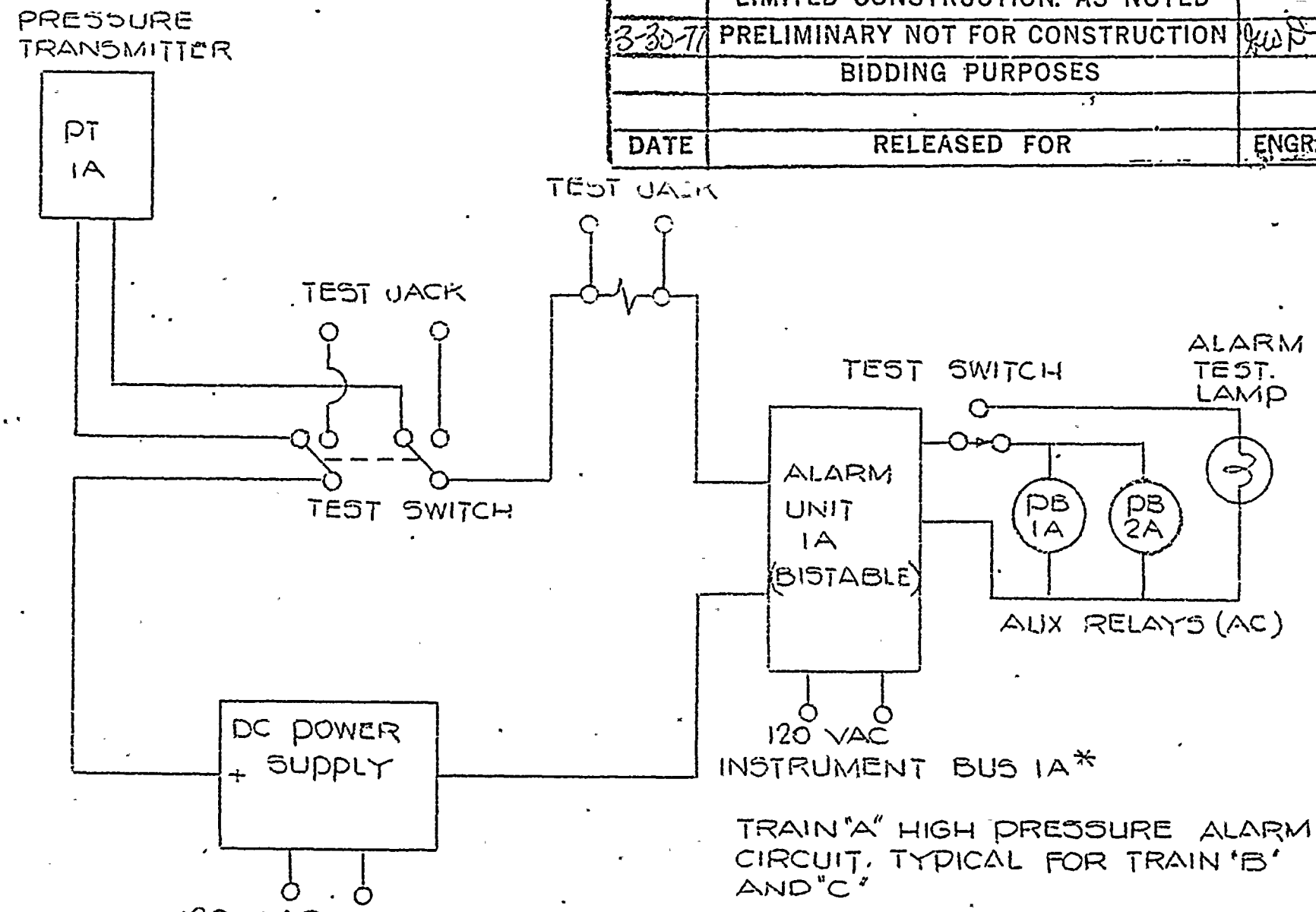


TRAIN "A" HIGH PRESSURE ALARM CIRCUIT, TYPICAL FOR TRAIN "B" AND "C"

* TRAIN "B" USES INSTRUMENT BUS 1B
TRAIN "C" USES INSTRUMENT BUS 1C

PRELIMINARY

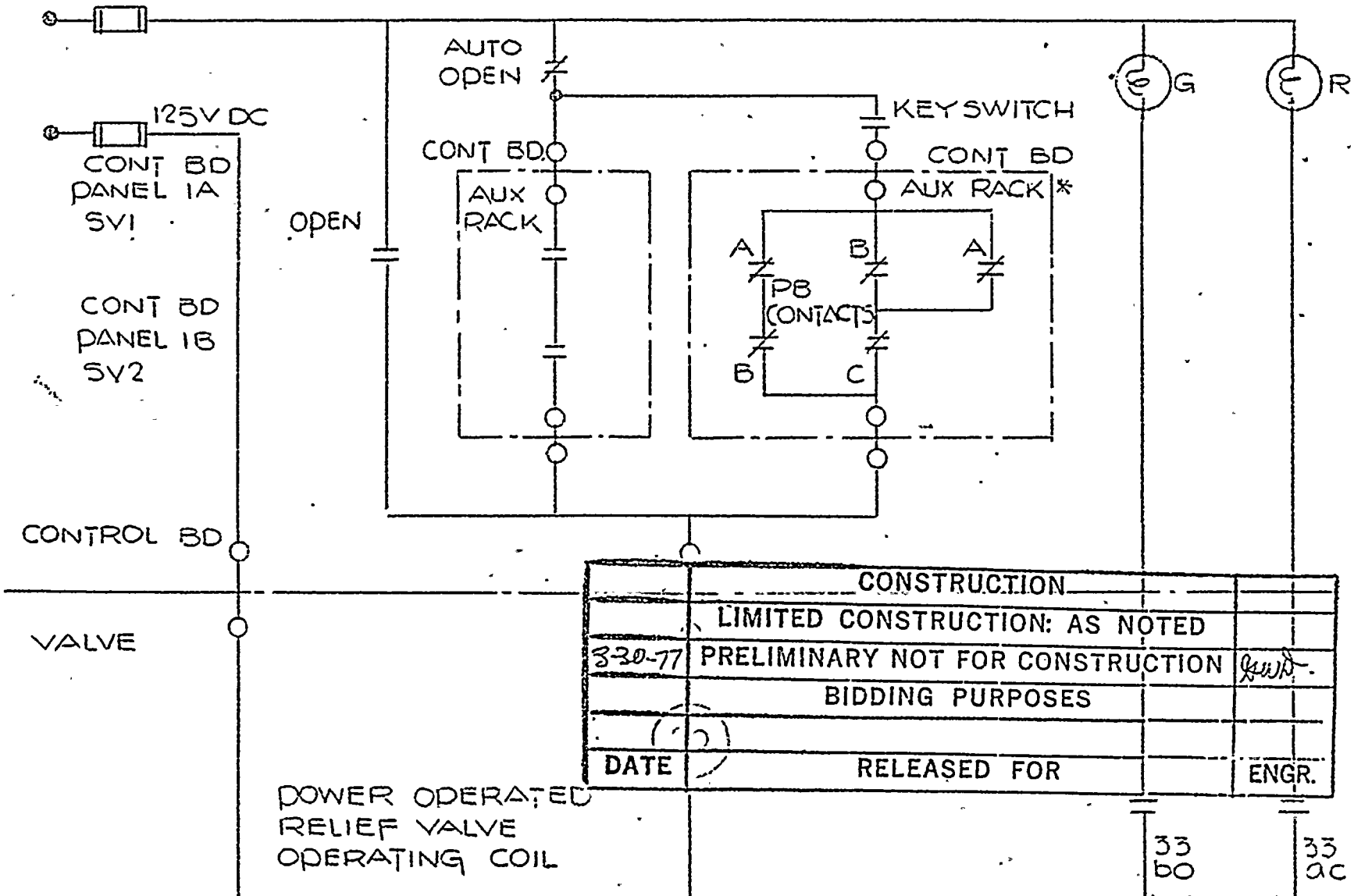
7906120406

FIG-1

EWR #1660

PRELIMINARY ATTACHMENT A Sheet A-5

TYPICAL POWER OPERATED RELIEF VALVE CIRCUIT
TYPICAL FOR SOLENOID VALVES SV1 AND SV2



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* RELAY ACTS AS ISOLATOR TO MAINTAIN CHANNEL SEPARATION INTERNALLY. WIRING TO RELAY COILS MUST BE SEPARATED IN ACCORDANCE WITH IEEE 384

FIG-2

PRELIMINARY

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EWR.#1660

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- PRIMARY COOLANT
- ECCS FROM SIS
- RCS PRESSURE PROTECTION
- RHR TO RCS
- FLOW PRESSURE, LEVEL, TEMPERATURE INDICATORS/CONTROLLER
- CHARGING AND LETDOWN (CVCS) TO RCS

REFERENCE DRAWING

CVCS - CHEMICAL & VOLUME CONTROL SYSTEM SHEET #1 ∓ DWG. 684J616
CVCS - CHEMICAL & VOLUME CONTROL SYSTEM SHEET #2 ∓ DWG 684J616
VCS - CHEMICAL & VOLUME CONTROL SYSTEM SHEET #3 ∓ DWG 540F960
ACS - AUXILIARY COOLANT SYSTEM ∓ DWG. 684J637
WDS - WASTE DISPOSAL SYSTEM SHEET #1 ∓ DWG. 684J876
WDS - WASTE DISPOSAL SYSTEM SHEET #2 ∓ DWG. 684J877
SIS - SAFETY INJECTION SYSTEM ∓ DWG. 684J740
SS - SAMPLING SYSTEM ∓ DWG. 540F961

REFERENCES:

1.) PROCESS FLOW DIAGRAM ∓ DWG. 540F949
2.) DEFINITION OF SYMBOLS ∓ E. SPEC. 667176 REV. 2 AND ∓ E. SPEC. 667516 REV. 0
3.) INSTALLATION OF INSTRUMENTATION ∓ PROC. SPEC. CAP-294367 REV. 1
4.) MATERIAL SPEC. PIPE AND FITTINGS ∓ E SPEC. 656986 REV. 2 AND ∓ E. SPEC. 676398 REV. 0

LEGEND:

IMB - INSIDE MISSILE BARRIER AND-OR SECONDARY SHIELDING.
OMB - OUTSIDE MISSILE BARRIER AND-OR SECONDARY SHIELDING
GA. - GAS ANALYZER (WDS)

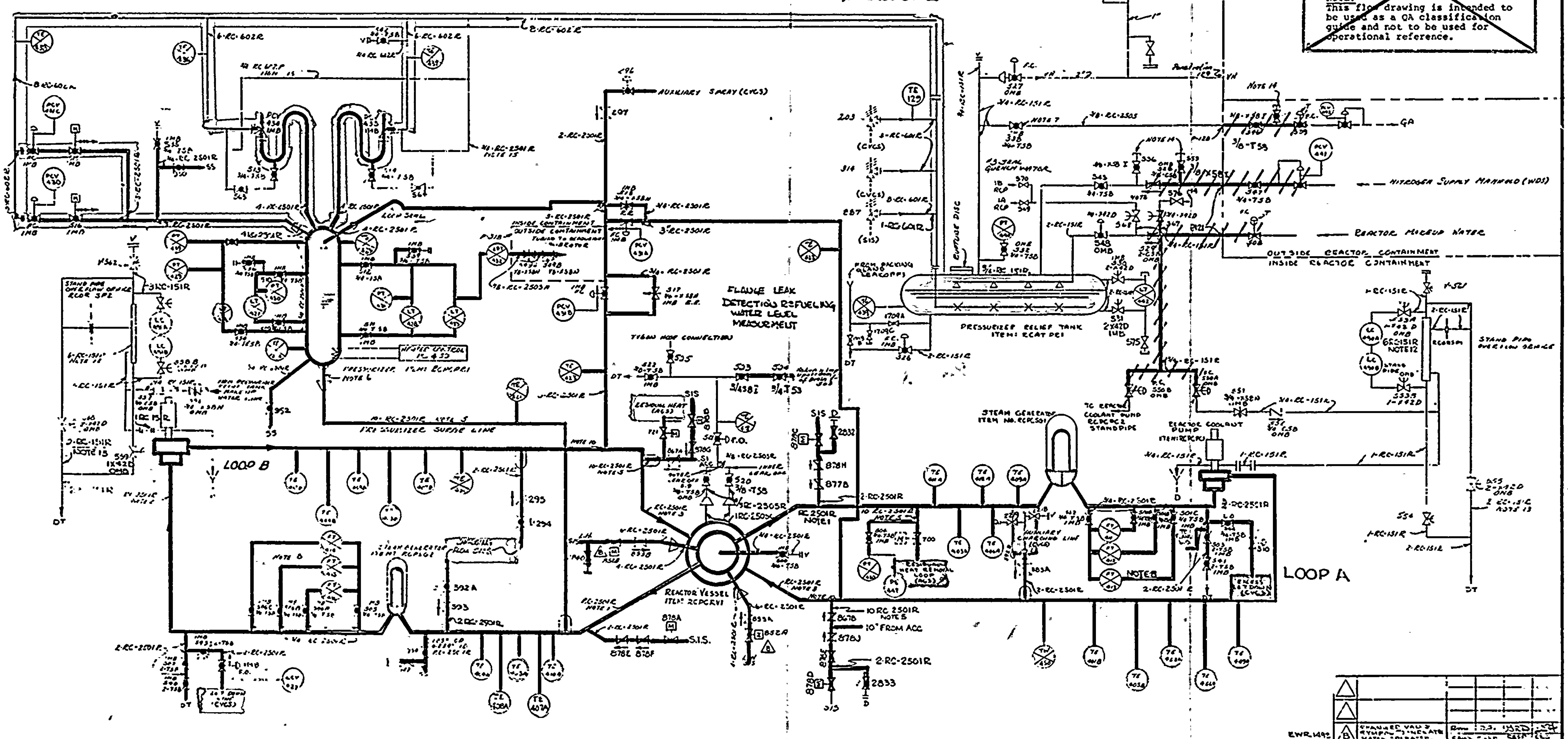
VH - VENT HEADER (WDS)
DT - DRAIN TANK
F.C. - FAIL CLOSED
F.O. - FAIL OPEN
V - LOCAL VENT
T - CONTAINMENT ISOLATION SIGNAL
RR - REACH ROD REQUIRED
LO - LOCKED OPEN
D - LOCAL DRAIN

NOTES:

1.) 29" INSIDE DIAMETER
2.) 31" INSIDE DIAMETER
3.) 27.5 INSIDE DIAMETER
4.) ALL GLOBE VALVE INSTALLED WITH FLOW UNDER THE SEAT EXCEPT NO. 548
5.) SCHEDULE 140 PIPE
6.) 14" SCHEDULE 140 NOZZLE
7.) 3/4" PIPE X 3/8" TUBE INSERT
8.) ELBOW FLOW METER
9.) ALL ITEM NUMBERS INCLUDE PREFIX RG
10.) SPRAY LINE SCOOP
11.) FIRST VALVE IN PIPING CONNECTED TO REATOR COOLANT PIPING IS LOCATED ABOVE REACTOR VESSEL NOZZLE CENTER LINE EXCEPT NO. 501, 502, 503, 505, 506, 507, 543, 544 AND 700
12.) AND PIPE IS 6 IN. SCHEDULE 10S PIPE BOTH ENDS CAPPED
13.) PIPE SHOULD BE SLOPED DOWN HILL THROUGHOUT THE RUN TO DRAIN TANK
14.) ISOLATION VALVE TEST CONNECTION CONSISTS OF SHUTOFF VALVE SWAGELOCK S.W. UNION & 3/8" 2500 PSI TUBING BETWEEN VALVE & UNION SHUT OFF VALE. FOR 3/4" SHUTOFF VALVES ADD 3/4" TO 3/8" SW REDUCER.
15.) LINE SHOULD BE SELF DRAINING

USNRC QUALITY GROUP A IS RED
USNRC QUALITY GROUP B IS BLUE
USNRC QUALITY GROUP C IS GREEN
QA INSTRUMENTATION IS YELLOW

NOTE:
This flow drawing is intended to be used as a QA classification guide and not to be used for operational reference.



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NOTICE REVISIONS
④ REVISED — DATE 6-5-74
⑤ CHANGED VALVE 852A BASED TO SHOW MOTOR OPERATED — DATE 6-18-76

REFERENCE DRAWINGS

EWR 1492

ROCHESTER GAS & ELECTRIC CORP.

ROBERT EMMETT GINNA NUCLEAR POWER STATION
UNIT NO. 1
REACTOR COOLANT SYSTEM
ENGINEERING FLOW DIAGRAM

NO. 33013-424B

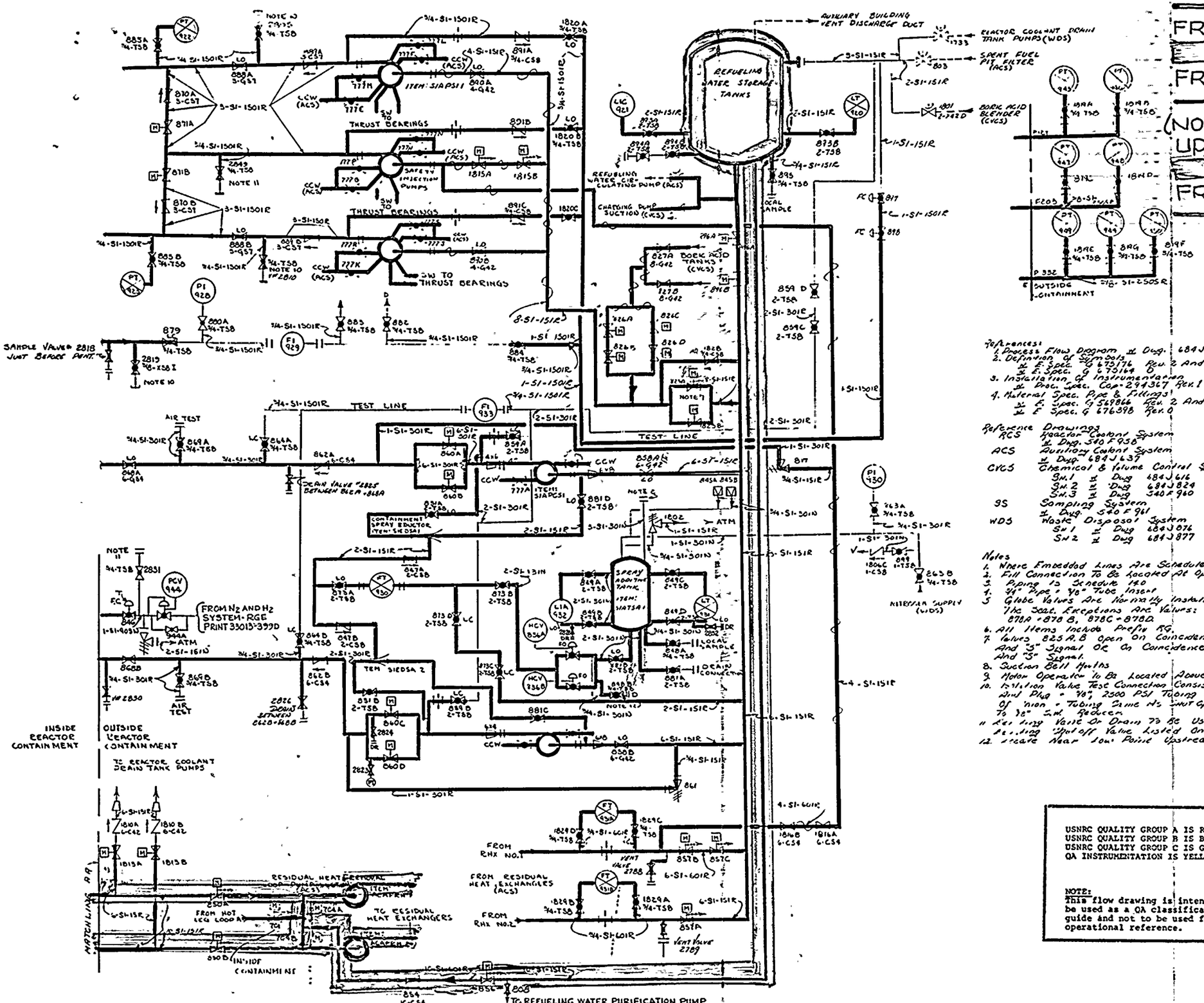
PRIMARY FLOW TO RHRS FROM RCS

ALTERNATE FLOW TO RHRS FROM RCS

SIS/CONTAINMENT SPRAY (NOT USED DURING NORMAL START UP AND SHUT DOWN)

ALTERNATE SUPPLY TO RHRS FROM RWST

COMPONET COOLING WATER



References:
1. Process Flow Diagram ✠ Dwg. 684J941
2. Definition of Symbols
   ✠ E. Spec. G 675176 Rev. 2 And
   ✠ E. Spec. G 675164 0
3. Installation of Instrumentation
   ✠ Drac. Spec. Cap-2794367 Rev. 1
4. Material Spec. Pipe & Fittings
   ✠ E. Spec. G 569866 Rev. 2 And
   ✠ E Spec. G 676898 Rev. 0

Reference Drawings
- RCS — Reactor Coolant System ✠ Dwg. 540F936
- ACS — Auxiliary Coolant System ✠ Dwg. 684J637
- CVCS — Chemical & Volume Control System
  - SH.1 ✠ Dwg 684J616
  - SH.2 ✠ Dwg 684J824
  - SH.3 ✠ Dwg 540F980
- 9S — Sampling System ✠ Dwg. 540F961
- WDS — Waste Disposal System
  - SH.1 ✠ Dwg 684J876
  - SH.2 ✠ Dwg 684J877

Notes
1. Where Embedded Lines Are Schedule 80S
2. Fill Connection To Be Located At Operating Floor Level
3. Piping Is Schedule 140
4. ¾" Pipe, ⅜" Tube Insert
5. Globe Valves Are Normally Installed With Flow Under The Seat. Exceptions Are Valves: 834A-834B, 835A-835B, 874A-874B, 878A-878B, 878C-878D
6. All Items Include Prefix RG.
7. Valves 825A,B open on Coincidence of low level in Boric Acid Tanks And "S" Signal Or On Coincidence of Failure To Open 826A-B, Or 826 C-D And "S" Signal.
8. Suction Bell Mouths
9. Motor Operator To Be Located Above Water Level
10. Isolation Valve Test Connection Consists Of Shutoff Valve, Swagelok S.W. Union And Plug - ¾" 2500 PSI Tubing Between Valve And Union. Material Of Union - Tubing Same As Shut Off Valve For ¾" Shutoff Valves, Add ¾" To ⅜" S.W. Reducer.
11. Test Line Valve Or Drain To Be Used As Isolation Valve Test Conn.
12. Locate Near Low Point Upstream Of MCP's.

Legend
- SW — Service Water
- LC — Locked Closed
- LO — Locked Open
- FC — Fail Closed
- V — Local Vent
- T — Containment Isolation Signal
- FO — Fail Open
- D — Local Drain
- ATM — Atmosphere

USNRC QUALITY GROUP A IS RED
USNRC QUALITY GROUP B IS BLUE
USNRC QUALITY GROUP C IS GREEN
QA INSTRUMENTATION IS YELLOW

NOTE:
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REFERENCE DRAWINGS
- W. Engineering 684J740
- RG&E 33013-425A

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SAFETY INJECTION SYSTEM ENGINEERING FLOW DIAGRAM

JOB NO. NO. 33013-425-A

- RCS CHARGING AND LETDOWN TO CVCS
- NORMAL CHARGING AND LETDOWN (CVCS)
- ALTERNATE CHARGING AND LETDOWN (CVCS)
- NORMAL MAKE UP WATER
- EMERGENCY MAKE UP TO RCS THROUGH CVCS
- PRESSURE / FLOW CONTROLLERS
- LETDOWN LINE (FROM SUCTION LINE LOOP D RCS)
- CHARGING LINE (TO HOT LEG LOOP D RCS)
- RELIEFS
- LEVEL/FLOW CONTROLLERS
- CHARGING LINE (TO COLD LEG LOOP B RCS)
- COMPONET COOLING / LIQUID PROCESSING
- AUXILIARY SPRAY (TO PRESSURIZER RCS)
- EXCESS LETDOWN LINE (FROM SUCTION LEG LOOP A RCS)

USNRC QUALITY GROUP A IS RED
USNRC QUALITY GROUP B IS BLUE
USNRC QUALITY GROUP C IS GREEN
QA INSTRUMENTATION IS YELLOW

NOTE:
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WESTINGHOUSE 684J61G		
RG&E 33013-426-0		

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		DRAWN BY	CHK'D.	ENG'R.	DISC. MGR.	DATE

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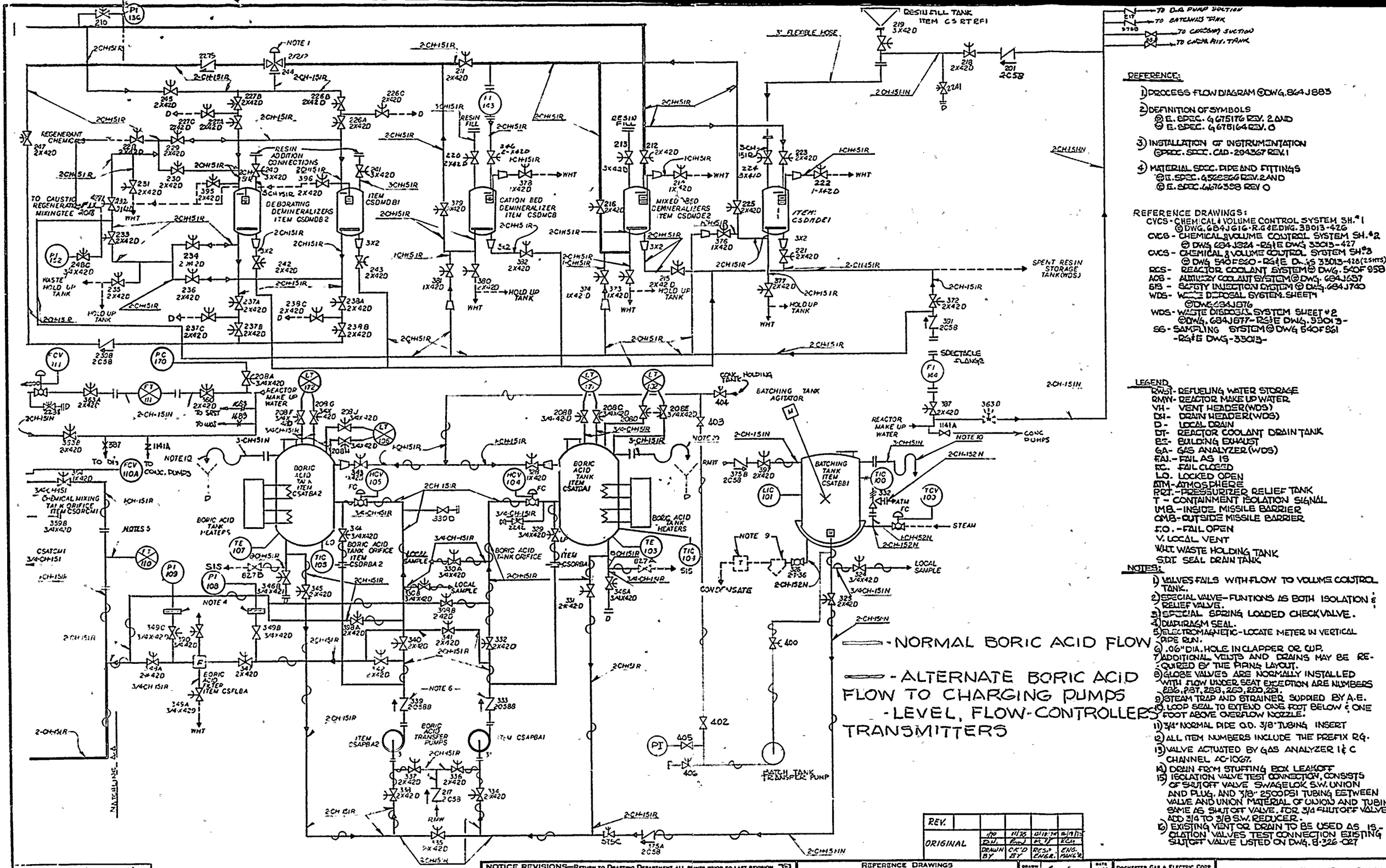
UNIT NO.
CHEMICAL & VOLUME CONTROL SYSTEM
ENG FLOW DIAG

JOB NO.

NO. 33013-433-A



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RGE E 33013-453-0		

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ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1
CHEMICAL & VOLUME CONTROL SYSTEM
SHEET #1 ENG. FLOW DIAG.
NO. 33013-426-0

RCS INLET/OUTLET TO RHRS
RHR NORMAL FLOW
COMPONET COOLING
FLOW/TEMP CONTROLLERS

OUTSIDE REACTOR CONTAINMENT
INSIDE REACTOR CONTAINMENT

USNRC QUALITY GROUP A IS RED
USNRC QUALITY GROUP B IS BLUE
USNRC QUALITY GROUP C IS GREEN
QA INSTRUMENTATION IS YELLOW

NOTE:
This flow drawing is intended to be used as a QA classification guide and not to be used for operational reference.

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REFERENCE DRAWINGS

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UNIT NO.
AUXILIARY COOLANT SYSTEM
ENGINEERING FLOW DIAGRAM
Job No. NO. 33013-436-0

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K1						
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SECTION A-A
Scale 1/4" = 1'-0"
SECTION B-B
Scale 1/4" = 1'-0"
SECTION (A)
Scale 1" = 1'-0"
SECTION (C)
Scale 1" = 1'-0"
SECTION (D)
Scale 1 1/2" = 1'-0"
DETAIL "A"
Scale 1" = 1'-0"
SECTION 1
ELEVATION
PLAN
DETAIL OF REINFORCED CONC. BLOCK WALLS IN BATTERY ROOMS
Scale 1" = 1'-0"
ELEVATION
PLAN
DET. of REINF. CANTILEVER CONC. BL. WALL
Scale 1" = 1'-0"
NOTES
1. For Quality and Installation of Finish Materials Called for in This Area. See Specification SP-5325
2. Plaster on Conc. Walls to be on Met. Lath - 3/4" [s 16" O.C. and Resilient Clips.
3. Any and All References to Column Line G1 and G2 Around Control Room Area are One and the Same.
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UNIT NO. 1
ARCHITECTURAL
CONTROL ROOM
SECTIONS & DETAILS
2 REV. MOVABLE PARTITIONS P.G. R.H. F.B.
1 Added Note #2 Released for Const. J.H.D. R.H. F.B.
0 4-4-68 Released For Details Of Reinf. C.Blk. Walls-Battery R'm
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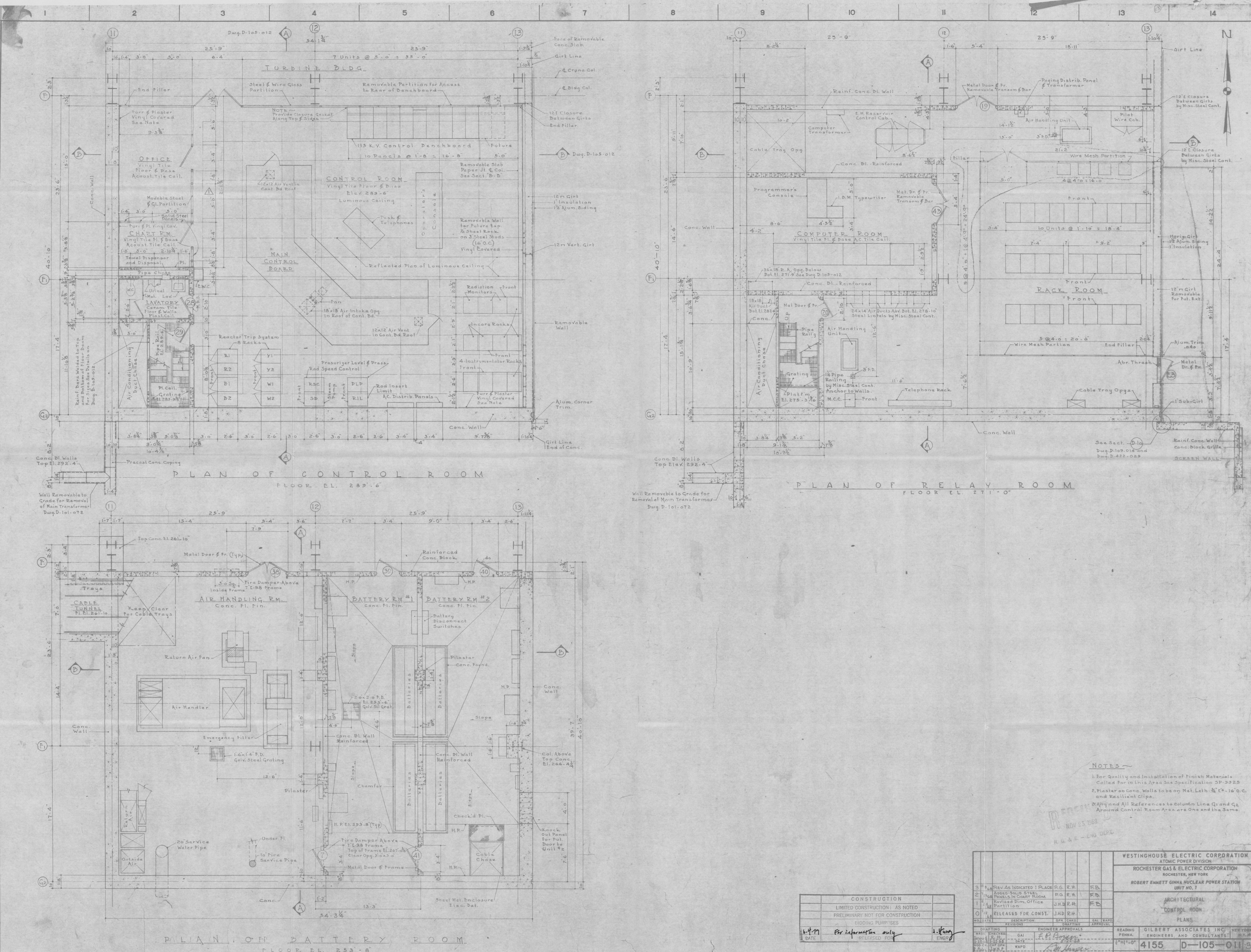

NOTES ~

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2. Plaster on Conc. Walls to be on Met. Lath-¾" ['s-16" O.C. and Resilient Clips.
3. Any and All References to Column Line G1 and G2 Around Control Room Area are One and the Same.

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3	11-8-68	REV. AS INDICATED 1 PLACE	P.G.	R.H.	F.B.	
2	7-23-68	ADDED-SOLID STEEL PANELS IN CHART ROOM	P.G.	R.H.	F.B.	
1	6-24-68	Revised Dim. Office Partition	J.H.D.	R.H.	F.B.	
0	5-22-68	RELEASED FOR CONST.	J.H.D.	R.H.		

REVISIONS — DRAFTING — APPROVAL

DRAFTING: MADE Dowd 5-22-68; CHECKED R.H. 5-22-68; SQD CH. R. Polo 5-22-68; CHF DFN J.W.H.P. 5-22-68

ENGINEER APPROVALS: GAI F. P. Border 5-22-68; WAPD R.M. Harper 5-22-68

WESTINGHOUSE ELECTRIC CORPORATION
ATOMIC POWER DIVISION

ROCHESTER GAS & ELECTRIC CORPORATION
ROCHESTER, NEW YORK

ROBERT EMMETT GINNA NUCLEAR POWER STATION
UNIT NO. 1

ARCHITECTURAL
CONTROL ROOM
PLANS

READING PENNA. — GILBERT ASSOCIATES INC. ENGINEERS AND CONSULTANTS — NEW YORK N.Y.

SCALE ¼"=1'-0" | WORK ORDER 4155 | SIZE D | DRAWING 105-011 | REV. 3

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