

Docket No. 50-336

Attachment 1

Millstone Nuclear Power Station, Unit No. 2

Control Room Layout

July, 1982

Control Room Panel (Main Control Board) C01

This panel contains the controls and instrumentation for the Engineered Safeguards equipment (i.e., safety injection pump control switches).

Control Room Panel (Main Control Board) C02

This panel contains the controls and instrumentation for the Chemical and Volume Control equipment (i.e., boric acid pump control switches, charging pump control switches).

Control Room Panel (Main Control Board) C03

This panel contains the controls and instrumentation for the Reactor Coolant System equipment (i.e., pressurizer pressure and level, reactor coolant temperature).

Control Room Panel (Main Control Board) C04

This panel contains the controls and instrumentation for the Reactivity Control equipment (i.e., makeup mode selector switch, wide range power).

Control Room Panel (Main Control Board) C05

This panel contains the controls instrumentation for the Steam Generator and Feedwater Control equipment (i.e., aux feedwater pump control switches, steam generator water level).

Control Room Panel (Main Control Board) C06


This panel contains the controls instrumentation for the Plant Auxiliary equipment (i.e., service water pump control switch).

Control Room Panel (Main Control Board) C07

This panel contains the controls and instrumentation for the Turbine Generator equipment.

Control Room Panel (Main Control Board) C08

This panel contains the controls and instrumentation for the Station Electric Service equipment (i.e., diesel generator control switches, station electric service breaker control switches).



Control Room Panel

RC02C3

This panel contains the controls and instrumentation for the Engineered Safety Actuation System - Sensor System, (i.e., wide range power).

Control Room Panel

RC02D4

This panel contains the controls and instrumentation for the Engineered Safety Actuation System - Sensor System (i.e., wide range power).

Control Room Panel

RC02B

This panel contains the controls and instrumentation for the Engineered Safety Actuation System, (i.e., sensor logic, sequencer actuation).

Control Room Panel

RC02C

This panel contains the controls and instrumentation for the Engineered Safety Actuation System, (i.e., sensor logic, sequencer actuation).

Control Room Panel COIX

This panel contains the controls and instrumentation for the Reactor Protection Status Indication.

Control Room Panel RC05A

This panel contains the controls and instrumentation for the Reactor Protection & Nuclear Instrumentation Safety Channels (i.e., wide range power, reactor trip units).

Control Room Panel RC05B

This panel contains the controls and instrumentation for the Reactor Protection & Nuclear Instrumentation Safety Channels (i.e., wide range power, reactor trip units).

Control Room Panel RC05C

This panel contains the controls and instrumentation for the Reactor Protection & Nuclear Instrumentation Safety Channels (i.e., wide range power, reactor trip units).

Control Room Panel RC05D

This panel contains the controls and instrumentation for the Reactor Protection & Nuclear Instrumentation Safety Channels (i.e., wide range power, reactor trip units).

Control Room Panel RC05F

This panel contains the controls and instrumentation for the Auxiliary Trip equipment.

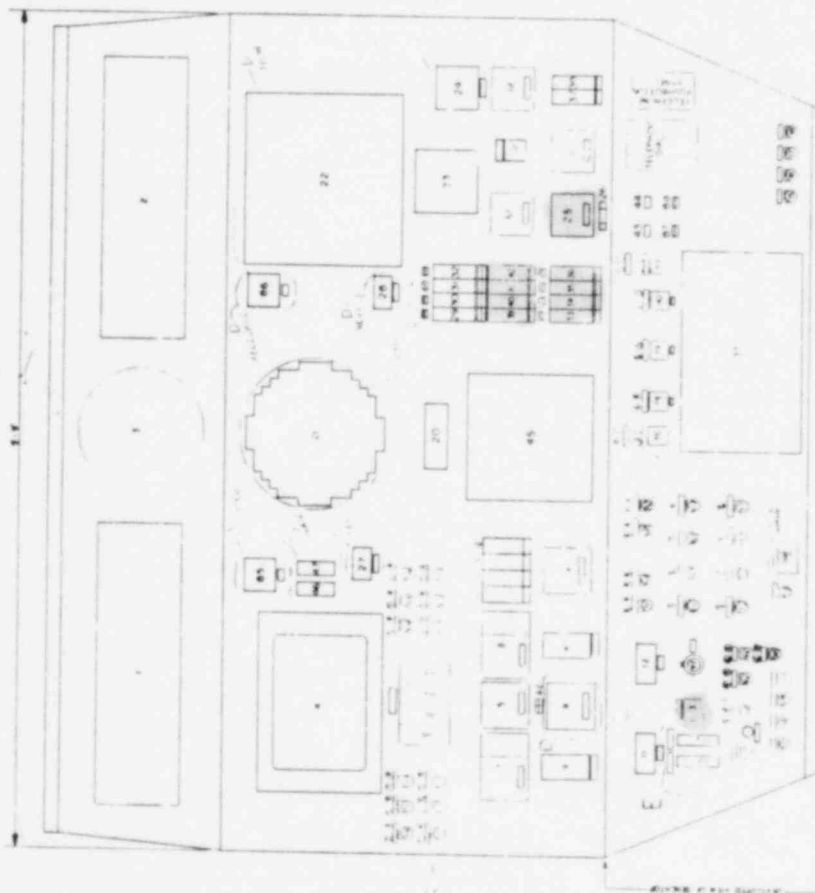
Control Room Panel RC02A1

This panel contains the controls and instrumentation for the Engineered Safety Actuation System - Sensor System, (i.e., wide range power).

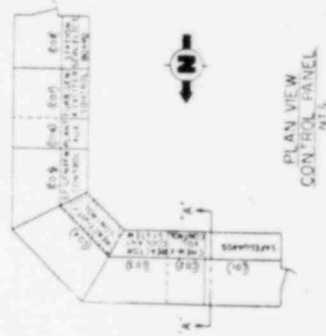
Control Room Panel RC02B2

This panel contains the controls and instrumentation for the Engineered Safety Actuation System - Sensor System, (i.e., wide range power).

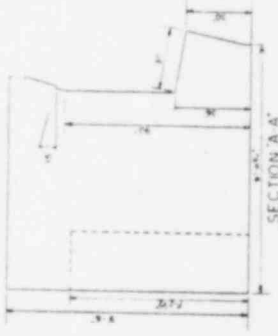




CONTROL ROOM A PANEL C04  
(FRONT)



PLAN VIEW  
CON. ROOM A PANEL  
NTS



SECTION A-A  
NTS

NOTES:  
1. ALL DIMENSIONS ARE IN FEET AND INCHES.  
2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.  
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.  
4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

RELEASED FROM  
NOR COM BOX

BECHTEL CORPORATION  
INTERNATIONAL BUILDINGS  
100 BULLHORN STREET COMPANY  
UNIVERSITY OF  
NORTHEAST UTILITIES

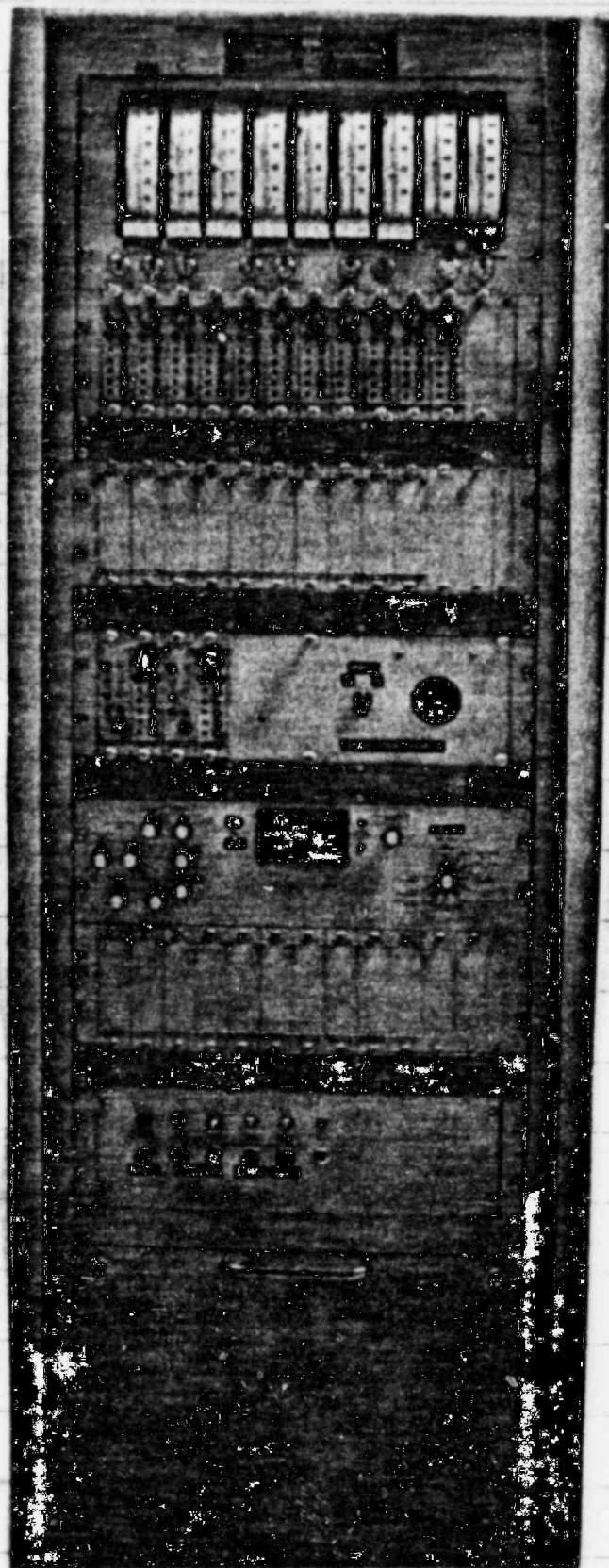
DATE	2/28/74	2/28/74
BY	W. J. B. / J. B. B.	W. J. B. / J. B. B.
FOR	W. J. B. / J. B. B.	W. J. B. / J. B. B.
REVISION	1.0	1.0
DESCRIPTION	1.0	1.0
DATE	2/28/74	2/28/74
BY	W. J. B. / J. B. B.	W. J. B. / J. B. B.
FOR	W. J. B. / J. B. B.	W. J. B. / J. B. B.
REVISION	1.0	1.0
DESCRIPTION	1.0	1.0





# CONTROL ROOM PANEL RC02C3

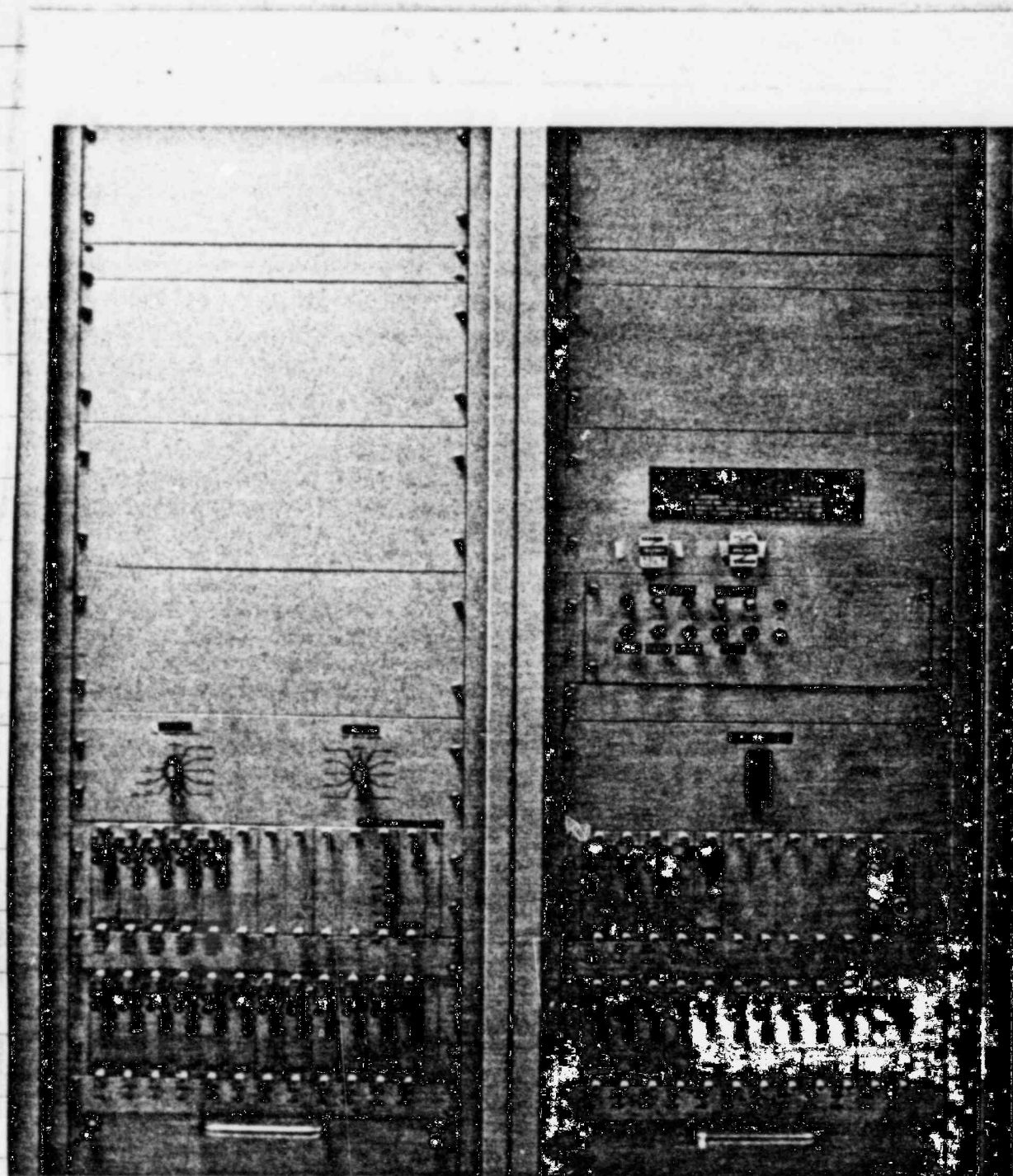
ENGINEERED SAFETY ACTIVATION SYSTEM - SENOR CABINET  
(RC02A1, B2 & D4 SIMILAR)





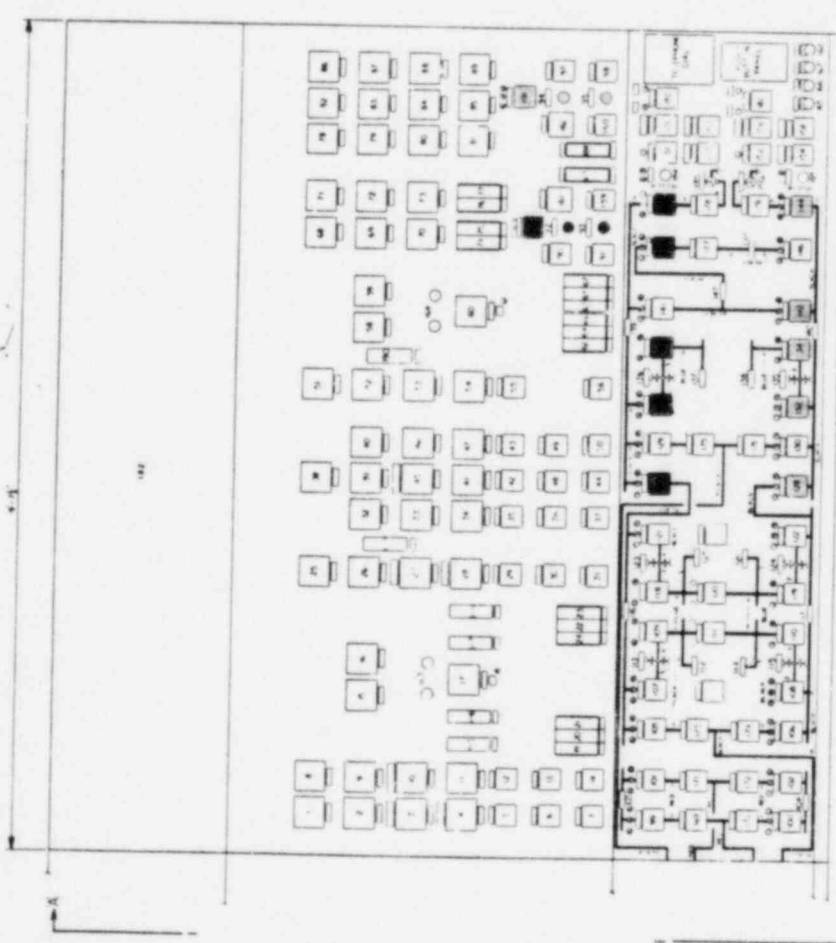
# CONTROL ROOM PANEL RC02C

Engineered Safety Actuation Cabinet  
(Control Room Panel RC02B similar)

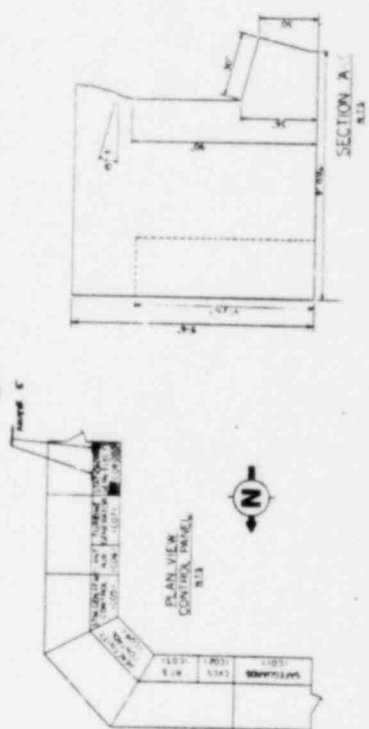










CONTROL ROOM PANEL C08  
(FRONT)



NOTES

THE LATEST AND CHEAPEST FROM THE  
 OFFICE OF THE DIRECTOR, THE BUREAU OF  
 THE U. S. DEPARTMENT OF AGRICULTURE  
 WASHINGTON, D. C. 20250

RELEASED FROM  
FBI CONTROL

	<b>MC GRAW HILL CORPORATION</b>
	1221 AVENUE OF THE AMERICAS NEW YORK, N.Y. 10020-1396





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NOTES:

- 1. THE BUILDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.
- 2. THE FOUNDATION SHALL BE DESIGNED TO SUPPORT THE BUILDING ON THE SOFT CLAY.
- 3. THE ROOF SHALL BE FLAT AND SHALL BE PROTECTED BY A 4" THICK CONCRETE SLAB.
- 4. THE ROOF SHALL BE DRAINAGE SHALL BE TO THE STREET.
- 5. THE ROOF SHALL BE INSULATED WITH 4" THICK INSULATION.
- 6. THE ROOF SHALL BE FINISHED WITH A 2" THICK ASPHALT AND GRAVEL FLOORING.
- 7. THE ROOF SHALL BE PROTECTED BY A 4" THICK CONCRETE SLAB.
- 8. THE ROOF SHALL BE DRAINAGE SHALL BE TO THE STREET.
- 9. THE ROOF SHALL BE INSULATED WITH 4" THICK INSULATION.
- 10. THE ROOF SHALL BE FINISHED WITH A 2" THICK ASPHALT AND GRAVEL FLOORING.

NO.	DESCRIPTION	QTY.	UNIT	PRICE	TOTAL
1	CONCRETE	100	CU YD	10.00	1000.00
2	STEEL	100	LB	0.10	10.00
3	BRICK	100	1000'S	1.00	100.00
4	CEMENT	100	CU YD	10.00	1000.00
5	SAND	100	CU YD	10.00	1000.00
6	GRAVEL	100	CU YD	10.00	1000.00
7	ASPHALT	100	CU YD	10.00	1000.00
8	INSULATION	100	CU YD	10.00	1000.00
9	PAINT	100	CU YD	10.00	1000.00
10	LABOR	100	CU YD	10.00	1000.00

NO.	DESCRIPTION	QTY.	UNIT	PRICE	TOTAL
1	CONCRETE	100	CU YD	10.00	1000.00
2	STEEL	100	LB	0.10	10.00
3	BRICK	100	1000'S	1.00	100.00
4	CEMENT	100	CU YD	10.00	1000.00
5	SAND	100	CU YD	10.00	1000.00
6	GRAVEL	100	CU YD	10.00	1000.00
7	ASPHALT	100	CU YD	10.00	1000.00
8	INSULATION	100	CU YD	10.00	1000.00
9	PAINT	100	CU YD	10.00	1000.00
10	LABOR	100	CU YD	10.00	1000.00

**RECEIVED CORPORATION**

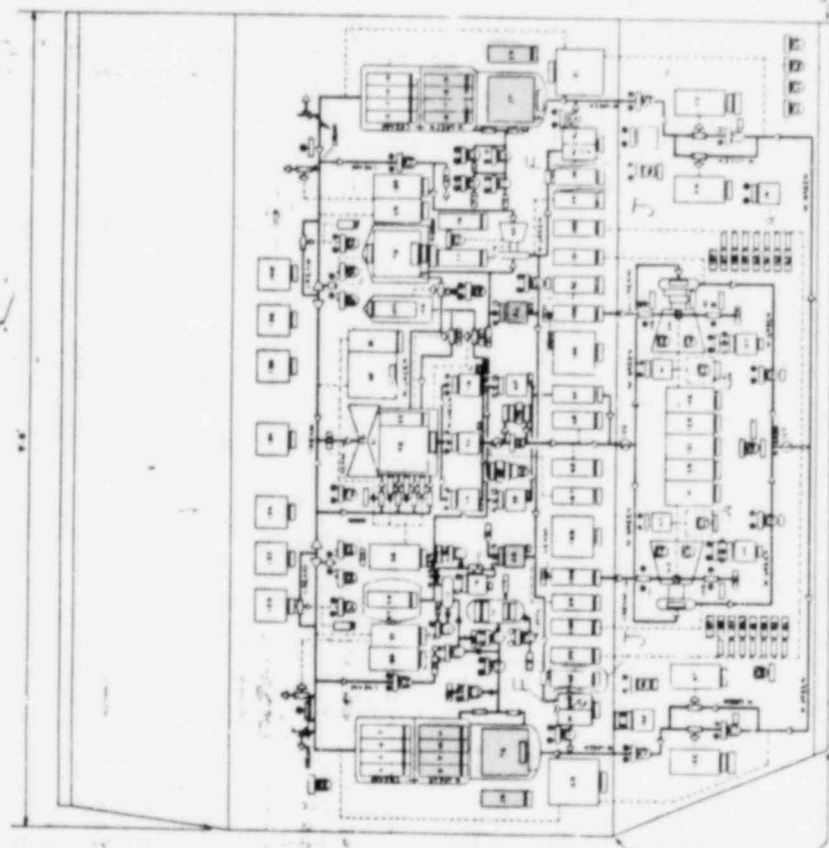
**THE BUILDING COMPANY**

**RECEIVED CORPORATION**

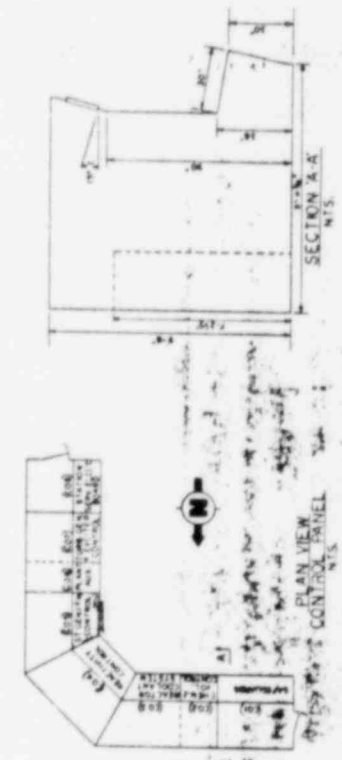
**THE BUILDING COMPANY**

**RECEIVED CORPORATION**

**THE BUILDING COMPANY**

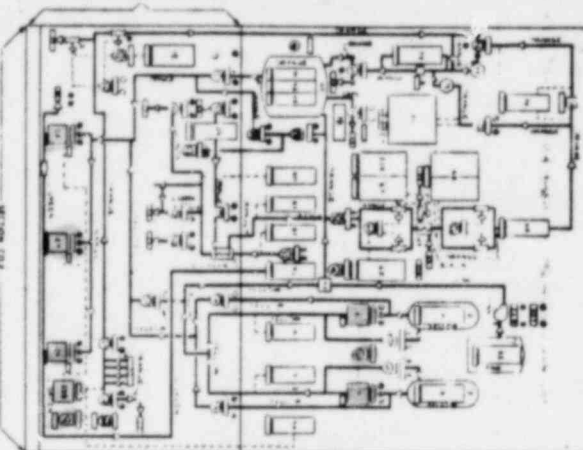


CONTROL ROOM PANEL C05  
(FRONT)

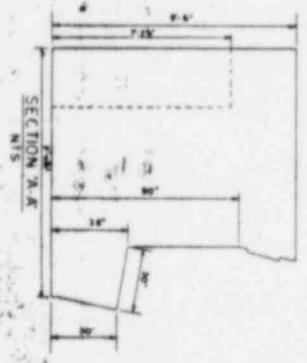
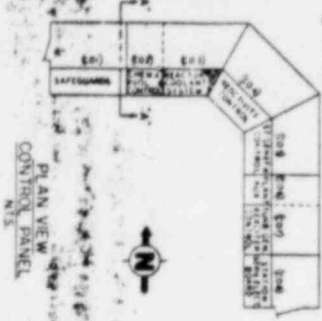
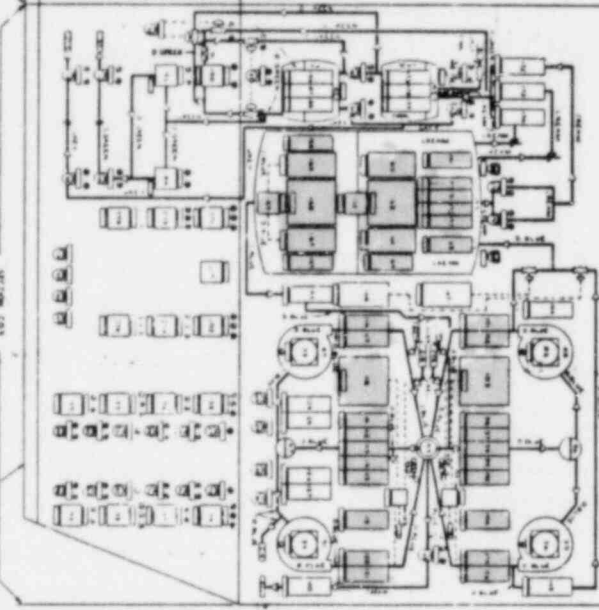


SECTION A-A  
PLAN VIEW  
CONTROL PANEL

CONTROL ROOM PANEL C02  
(FRONT)



CONTROL ROOM PANEL C03  
(FRONT)



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
[Detailed technical specifications and component data in a grid format]																																																																																																			

NOTES

1. All components are to be installed in accordance with the manufacturer's instructions.

2. The control panel is to be installed in a dry, well-ventilated area.

3. The control panel is to be grounded to the building ground.

4. The control panel is to be protected from physical damage.

5. The control panel is to be protected from electromagnetic interference.

6. The control panel is to be protected from static electricity.

7. The control panel is to be protected from moisture.

8. The control panel is to be protected from dust.

9. The control panel is to be protected from vibration.

10. The control panel is to be protected from noise.



MANUFACTURED BY  
[Company Name]  
[Address]  
[City, State, Zip]

Docket No. 50-336

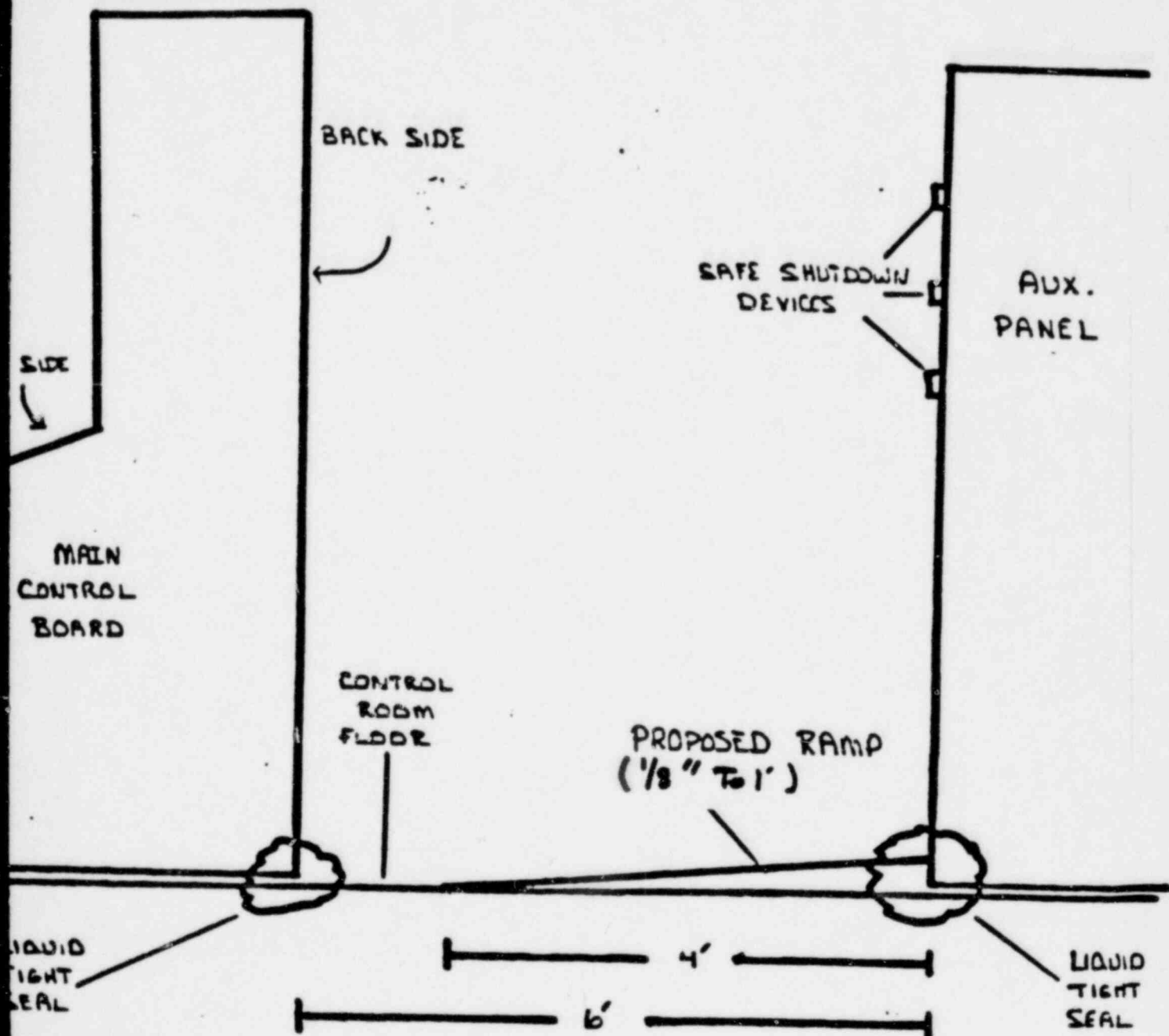
Attachment 2

Millstone Nuclear Power Station, Unit No. 2

Conceptual Control Room Modifications

July, 1982

# PROPOSED RAMP (TYPICAL EXAMPLE)



ATTACHMENT #2  
SKETCH #1