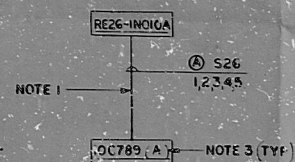


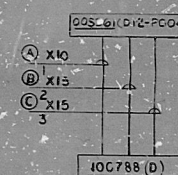
E-106



REACTOR ENCLOSURE VENT EXH RADIATION MONITORING

SCHEME NO. 1W1R051
(TYPICAL FOR 12 UNITS)

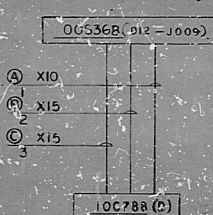
EQUIPMENT	EQUIPMENT NO.	Q NUMBER	SSSS SEPARATION CHANNEL	SCHEME NO.	LOCATIONS
REACTOR	RE26-1N010A	M-26	A1	1W1R051	RE26-1N010A 10C789(A)
ENCLOSURE VENT	RE26-1N010B	M-26	B1	1Y1R051	RE26-1N010B 10C790(A)
EXH RADIATION MONITORING	RE26-1N010C	M-26	A2	1Y1R051	RE26-1N010C 10C789(E)
	RE26-1N010D	M-26	B2	1Z1R051	RE26-1N010D 10C790(E)
REFUELING FLOOR VENT	RE26-1N010A	M-26	A1	1W1R052	RE26-1N010A 10C789(A)
EXH RADIATION MONITORING	RE26-1N010B	M-26	B1	1Y1R052	RE26-1N010B 10C790(A)
	RE26-1N010C	M-26	A2	1Y1R052	RE26-1N010C 10C789(E)
	RE26-1N010D	M-26	B2	1Z1R052	RE26-1N010D 10C790(E)



RADWASTE EQUIPMENT ROOMS VENTILATION EXHAUST PROCESS RADIATION MONITOR

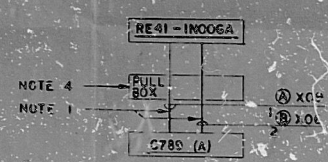
SCHEME NO. 001R072

EQUIPMENT	Q NO.	SSSS SEPARATION CHANNEL	INSTRUMENT NUMBER	SCHEME NUMBER	LOCATIONS
RADIWASTE EQUIPMENT ROOMS VENT EXHAUST PROCESS RADIATION MONITOR	—	—	RE26-016	001R072	10C788(D)
RADIWASTE ENCL EXHAUST PROCESS RADIATION MONITOR	—	—	RE26-008	001R074	10C788(D)
COMMON RHR SERVICE WATER LOOP A	1-26	2A	RE26-022A	001R076	10C606
RHR SERVICE WATER LOOP B	M-26	2B	RE26-022B	001R076	10C633
UNIT 1 ONLY CONTAINMENT LEAK DET	A	—	RE26-190	001R085	10C788(D)
UNIT 2 ONLY CONTAINMENT LEAK DET	B	—	RE26-290	001R085	10C788(D)
UNIT 1 TYPICAL FOR UNIT 2	—	—	—	—	—
RECOMBINER ROOMS & H ₂ ANALYZER COMP EXHAUST PROCESS RADIATION MONITOR	—	—	RE26-109	001R080	10C788(D)
STEAM EXHAUST DISCHARGE & VACUUM PUMP EXHAUST PROCESS RADIATION MONITOR	—	—	RE26-150	001R081	10C788(D)
SERVICE WATER PROCESS RADIATION MONITOR	—	—	RE26-110	001R082	10C788(D)
REACTOR ENCL CLG WATER	—	—	RE26-111	001R083	10C788(D)
RHR SERVICE WATER LOOP C	M-26	2C	RE26-121C	001R085	10C606
RHR SERVICE WATER LOOP D	M-26	2D	RE26-121D	001R085	10C633



RADWASTE DISCHARGE PROCESS RADIATION MONITOR

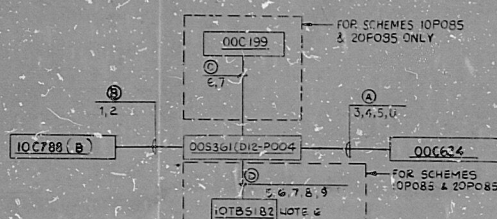
SCHEME NO. 001R075



MAIN STEAM LINE RADIATION MONITORING

SCHEME NO. 1W1R050
(TYPICAL FOR 12 UNITS)

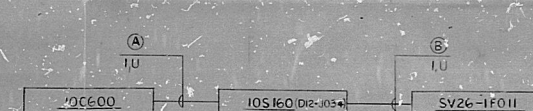
EQUIPMENT	EQUIPMENT NO.	Q NUMBER	SSSS SEPARATION CHANNEL	SCHEME NO.	LOCATIONS
MAIN STEAM LINE RADIATION MONITORING	RE26-1N010A	M-26	A1	1W1R050	10C789(A)
	RE26-1N010B	M-26	B1	1Y1R050	10C790(A)
	RE26-1N010C	M-26	A2	1Y1R050	10C789(E)
	RE26-1N010D	M-26	B2	1Z1R050	10C790(E)



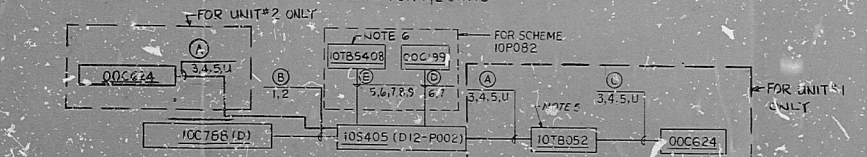
RADWASTE EQUIPMENT ROOMS VENTILATION EXHAUST PROCESS RADIATION MONITOR SAMPLE RACK

SCHEME NO. 001R072

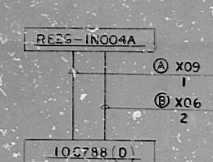
EQUIPMENT	SCHEME NO.	LOCATIONS
RADIWASTE EQUIPMENT ROOMS VENT EXHAUST PROCESS RADIATION MONITOR SAMPLE RACK	001R072	10C788(D)
RADIWASTE ENCL EXHAUST PROCESS RADIATION MONITOR SAMPLE RACK	001R074	10C788(D)
CONTAINMENT LEAK DET	A. SMP. RACK	10C606
CONTAINMENT LEAK DET	B. SMP. RACK	10C633
CONTAINMENT LEAK DET	C. SMP. RACK	10C788(D)
CONTAINMENT LEAK DET	D. SMP. RACK	10C788(D)
UNIT 1 TYPICAL FOR UNIT 2	—	—
RECOMBINER ROOMS & H ₂ ANALYZER COMP EXHAUST PROCESS RADIATION MONITOR SAMPLE RACK	001R080	10C788(D)
STEAM EXHAUST DISCHARGE & VACUUM PUMP EXHAUST PROCESS RADIATION MONITOR SAMPLE RACK	001R081	10C788(D)
SERVICE WATER PROCESS RADIATION MONITOR SAMPLE RACK	001R082	10C788(D)
REACTOR ENCL CLG WATER SAMPLE RACK	001R083	10C788(D)
RHR SERVICE WATER LOOP C SAMPLE RACK	001R085	10C606
RHR SERVICE WATER LOOP D SAMPLE RACK	001R085	10C633



AIR EJECTOR/HOLD UP PIPE DISCHARGE PROCESS RADIATION MONITOR SAMPLE RACK

SCHEME NO. 101R010
(TYPICAL FOR 12 UNITS)RECOMBINER ROOMS & H₂ ANALYZER EXHAUST PROCESS RADIATION MONITOR SAMPLE RACKSCHEME NO. 101R010
(TYPICAL FOR 12 UNITS)

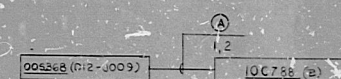
EQUIPMENT	SCHEME NO.	LOCATIONS
RECOMBINER ROOMS & H ₂ ANALYZER COMP EXHAUST PROCESS RADIATION MONITOR SAMPLE RACK	101R010	10C788(D)
STEAM EXHAUST DISCHARGE & VACUUM PUMP EXHAUST PROCESS RADIATION MONITOR SAMPLE RACK	101R011	10C788(D)
SERVICE WATER PROCESS RADIATION MONITOR SAMPLE RACK	101R012	10C788(D)
REACTOR ENCL CLG WATER SAMPLE RACK	101R013	10C788(D)
RHR SERVICE WATER LOOP C SAMPLE RACK	101R015	10C606
RHR SERVICE WATER LOOP D SAMPLE RACK	101R015	10C633



AIR EJECTOR/HOLD UP PIPE DISCHARGE PROCESS RADIATION MONITOR A

SCHEME NO. 111R100
(TYPICAL FOR 12 UNITS)

EQUIPMENT	INSTRUMENT NO.	SCHEME NO.	LOCATION
AIR EJECTOR/HOLD UP PIPE DISCHARGE PROCESS RADIATION MONITOR A	RE26-1N010A	111R100	10C789(A)
AIR EJECTOR/HOLD UP PIPE DISCHARGE PROCESS RADIATION MONITOR B	RE26-1N010B	111R100	10C790(A)
AIR EJECTOR/HOLD UP PIPE DISCHARGE PROCESS RADIATION MONITOR C	RE26-1N010C	111R100	10C789(E)
AIR EJECTOR/HOLD UP PIPE DISCHARGE PROCESS RADIATION MONITOR D	RE26-1N010D	111R100	10C790(E)



RADWASTE DISCHARGE PROCESS RADIATION MONITOR SAMPLE RACK

SCHEME NO. 001R075

EQUIPMENT	Q NO.	SSSS SEPARATION CHANNEL	SCHEME NO.	LOCATIONS
RADIWASTE DISCHARGE PROCESS RADIATION MONITOR SAMPLE RACK	—	—	001R075	10C788(D)
COMMON RHR SERVICE WATER LOOP A	1-26	2A	001R076	10C606
RHR SERVICE WATER LOOP B	M-26	2B	001R076	10C633
UNIT 1 SERVICE WATER	—	—	001R076	10C606
UNIT 2 SERVICE WATER	—	—	001R076	10C633
UNIT 1 TYPICAL FOR UNIT 2	—	—	—	—
REACTOR ENCL CLG WATER	—	—	001R076	10C788(D)
RHR SERVICE WATER LOOP C	M-26	2C	001R076	10C606
RHR SERVICE WATER LOOP D	M-26	2D	001R076	10C633

NOTES:

- ALL CABLES INDICATED IN THIS NOTE ARE TO BE RUN ENTIRELY IN RIGID STEEL CONDUIT. ONLY CABLES CARRYING "LOW" LEVEL SIGNALS MAY BE RUN IN THE SAME CONDUIT WITH THE INDICATED CABLES.
- THE GEIPL NUMBER FOR THIS SYSTEM IS D12-A. A TYPICAL GEIPL NUMBER IS D12-M010 (BECHTEL NO. RE26-1N010A). NON-TYPICAL GEIPL EQUIPMENT NOS ARE SHOWN IN PARENTHESES BY THE BECHTEL EQUIPMENT NO.
- LETTER IN PARENTHESES FOLLOWING TERMINATION CABLE NUMBER REFERS TO TERMINATION CABLE KEY. THIS LETTER IS NOT PART OF THE LOCATION NUMBER, BUT SERVES AS AN AID FOR CABLE ROUTING.
- THE MAIN STEAM LINE RADIATION MONITORS ARE LOWERED INTO PLACE IN THE STEAM TUNNEL VIA A CONDUIT ATTACHED TO A PULL BOX LOCATED AT ELEVATION 317'-0" IN THE REACTOR ENCLOSURE. THE PULL BOX SHALL BE LARGE ENOUGH TO ALLOW FOR EASY MAINTAINABILITY SO THAT THE MONITORS CAN BE PERIODICALLY RETRACTED FOR REPLACEMENT.
- TERMINAL BOX 10T052 IS FIELD PURCHASED AND INSTALLED BY FIELD AS CLOSE AS POSSIBLE TO PANEL 10C600 (SEE REF DWG 10).
- TERM BOXES 10T051 & 10T054 ARE FIELD PURCHASED AND ARE INSTALLED AT SUITABLE LOCATION NEAR THE RACKS 10C512 & 10C406 (SEE REF DWG 10 & 17).

REFERENCE DRAWING

- 101R010-M-1-D12 - ELEMENTARY DIAGRAM 1020-E-1 THRU 54 PROCESS RADIATION MONITORING
- 101R010-M-26-SH-4 - P & ID PLANT PROCESS RADIATION MONITORING
- 101R010-M-26-SH-4 - TERMINAL AND JUNCTION BOX SCHEDULE 11-2 UNITS
- 101R010-M-26-SH-4 - LOCAL DEVICE TABLE

NO.	DATE	BY	CHKD	APPD
1	10/1/78	J. L. B.	J. L. B.	J. L. B.
2	10/1/78	J. L. B.	J. L. B.	J. L. B.
3	10/1/78	J. L. B.	J. L. B.	J. L. B.
4	10/1/78	J. L. B.	J. L. B.	J. L. B.
5	10/1/78	J. L. B.	J. L. B.	J. L. B.
6	10/1/78	J. L. B.	J. L. B.	J. L. B.
7	10/1/78	J. L. B.	J. L. B.	J. L. B.
8	10/1/78	J. L. B.	J. L. B.	J. L. B.
9	10/1/78	J. L. B.	J. L. B.	J. L. B.
10	10/1/78	J. L. B.	J. L. B.	J. L. B.

BECHTEL

SAN FRANCISCO

LIMERICK GENERATING STATION UNITS 1 & 2

PHILADELPHIA ELECTRIC COMPANY

SCHEMATIC BLOCK DIAGRAM

PROCESS RADIATION MONITOR

SYSTEM H2 UNITS & COMMON

JOB NO. DRAWING NO. SHEET

8031 E-106 9

34 of 44

PDR RIDS

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