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MEASUREMENTS PROJECT DEVELOPMENT

EQUIPMENT— [redacted]

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216-1501	Charging Resistor Coupling	
216-1511	Charging Resistor Support	
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4K8683	Defining Slot Support Frame	
4K8691	Forward Defining Slot Support Disc	
4K8701	Forward Defining Slot Support Disc Spacer	
4K8711	Forward Defining Slot Support Disc Stud Bolt	
4K8721	Forward Defining Slot	
4K8731	Crystal Rear Defining Slot	
4K8741	Monitor Tube Rear Defining Slot	
4K8752	Monitor Tube Mounting Bracket	
26873	Detector House Series B Collimator	
5F5564	Support Bracket	
5F5573	Tube	
5F5593	Defining Disc	
5F5581	Tube Locking Collar	

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Job: Measurements Project Development - Equipment	No. 216-10
X-Ray Sources & Accessories for Detector Development	Prepared by: Salsig/rg
Series A Electrode Structure	Date: 9-18-51

Part No.	Description	Remarks
25334	First Design - Cathode Anode Assembly	
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25533	Series A Electrode Structure	
4K7892	Cathode Support Tube	
4K7901	Cathode Support Tube Clamp Ring	
4K7911	Cathode Ring	
4K7921	Cathode Ring Retainer	
4K7932	Cathode Center Rod Insulating Collar	
4K7941	Cathode Center Rod Adjusting Collar	
4K8071	Cathode Support Tube Mounting Plate	
4K8082	Cathode Center Rod Housing	
4K8091	Cathode Center Rod Insulating Collar Screw	
4K8101	Cathode Center Rod Wilson Seal Nut	
4K8111	Cathode Center Rod Inner Adjusting Nut	
4K8121	Anode Target	
4K8131	Anode Support	
4K8141	Anode Support Wilson Seal Plate	
4K8151	Anode Support Wilson Seal Nut	
4K8161	Anode Support Yoke	
4K8171	Anode Target Guiding Stud	
4K8201	Cathode Center Rod	
5F1001	Series A-2 Anode	
5F1011	Series A-2 Anode Support	
5F1571	Cathode Trigger Electrode Series A-2	

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JOB: Measurements Project Development - Equipment

JOB NO. 216-10

X-Ray Sources & Accessories for Detector Development

PREPARED BY Salsig/rg

Series A Electrode Structure

DATE 9-18-51

PART NO.	DESCRIPTION	REMARKS
5F1581	Cathode Ring	
5F1591	Series A-3 Anode	
5F4102	Series A-4 Anode	
26342	Outgassing Filament Assembly	
5F1651	Outgassing Filament	
5F1661	Outgassing Filament Adjustable Collar Spacer	
5F1671	Outgassing Filament Set Screw Bearing Block	
5F1681	Outgassing Filament Vacuum Load Collar	
5F1691	Outgassing Filament Wilson Seal Nut	
5F1702	Outgassing Filament Wilson Seal Plate	
5F1711	Outgassing Filament Inner Conductor	
5F1722	Outgassing Filament Outer Conductor	
5F6981	Outgassing Filament Adjustment Collar	

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27993	Type B Water Cooled Anode #1	
5F8233	Cathode Mount Flange	
5F8242	Cathode Support Tube	
5F8311-1	Cathode Filament Terminal	
5F8311-2	Cathode Filament Terminal (Opp. Hand)	
5F8301	Cathode Mount Ring	
5F8291	Cathode Grid Clamp Ring	
5F8281	Cathode Grid	
5F8251	Cathode Ring Nut	
5F8261	Cathode Washer Ring	
5F8271	Cathode Shim Ring	
5F8411	Anode Clamp Ring	
5F8403	Anode	
5F8423	Anode Mount Flange	
5F8434	Anode Terminal Shield	
5F8651	Anode Shield Clip	
5F8671	3/8 Synthane Screw	
5F8661	1/4 Synthane Screw	
5F8612	Cable Terminal Disc	
5F8631	Tube Clamp Spacer	
5F8641	Tube Clamp	
5F8604	Cable Terminal Cone	
5F8622	Cable Terminal Ring	
5H1061	Lead	

DRAWING LIST

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Measurements Project Development		216-10
X-Ray Sources & Accessories for Detector Development		Salsig/rg
Series C Electrode Structure		9--4-51
DWG. NO.	DESCRIPTION	REVISION
5H1071	Lead Insulator	
5H1081	Lead Clamp Flange	
5H4291	Series C-2 Anode Target	
5H1431	Series C-3 Anode Target	
5H2652	Collimator	
5H2661	Spacer	
216-1061	Collimating Mask	
5H6481	Anode Terminal Shield Stud	
5H6491	Anode Terminal Shield Stud Nut	
216-2141	Window Support Extension	
216-2151	Window Support Extension (Short)	
5M3153	Anode Mount Flange B	

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DRAWING LIST

Measurements Project Development - Equipment	216-10
X-Ray Sources & Accessories for Detector Development	Salsig/rg
Series D Electrode Structure	9-24-51

5M3084	Series D X-Ray Head Assembly	
216-2091	Cable Terminal to X-Ray Head	
5M1803	Ring	
5M1812	Ground Shield	
5M3091	Anode	
5M3101	Anode Butt	
5M3111	Anode Tube	
5M3121	Water Terminal	
5M3131	1/4-20 Insert	
5M3251	Thumb Screw	
5M3261	Filament Bus	
5M3271	Cathode Insulator	
5M3281	Grid	
5M3243	Fluorescer Ground Shield	
5M3141	Anode Squirt Tube	
5M1851	Shim Ring	
5M3731	Cable Clamp Ring	
5M3741	Cable Coax Cone	
5M3811	Center Pin Connector	

DRAWING LIST

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JOB: Measurements Project Development - Equipment | JOB NO. 216-10

X-Ray Sources & Accessories for Detector Development | PREPARED BY Salsig/rg

Series C Power Supply | DATE 9-19-51

PART NO.	DESCRIPTION	REMARKS
5H1024	Power Supply - Series C Assembly	
5F7594	Oil Tank	
5F7604	Oil Tank Cover	
5F8441	Resistor Mount Bracket	
5F8451	Vacuum Tube Support Clip	
5F8461	Vacuum Tube Support Spring	
5F8471	Insulator Flange	
5F8481	Spring Support Angle	
5F8491	Oil Tank Post Pad	
5F8501	Vacuum Tube Support Disk	
5F8511	Transformer Support Angle	
5F8522	Vacuum Tube Support Plate	
5F8532	Lifting Lug	
5F8543	Inside Mounting Plate	
5F8554	Rack for Internal Components	
5F8801	Oil Level Window	
5F8811	Oil Level Window Gasket	
5F8821	Oil Level Window Frame	
5F8831	Viewing Window	
5F8841	Viewing Window Gasket	
5F8851	Resistor Mount Strip	
5F8861	Tank Stanchion	
5F8873	Tank Lid Gasket	
5H1001	Insulator Flange Gasket	
5H1011	Insulator Terminal Lead	

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DRAWING LIST

Measurements Project Development - Equipment	216-1C
X-Ray Sources & Accessories for Detector Development	Salsig/rg
Series C Power Supply	9-19-51

5H1732	Rack Sleeper	
5H1722	Tank Sleeper	
5H1902	Tank and Rack Sleeper	
5H1911	Tank to Rack Block	
A3502-1B	4" Window Frame	
A4071	Viewing Window Clamp Gasket	

DRAWING LIST		2	15
Measurements Project Development - Equipment		216-10	
X-Ray Sources & Accessories for Detector Development		Salsig/rg	
Series C & D Electrode Structure Cooling System		9-20-51	
27716	Anode Cooling System Layout		
216-1003	Skid		
216-1013-1	Fan Support (Right Hand)		
216-1023	Fan Shroud		
216-1033	Fan Modification		
216-1043	Radiator Screen		
5H6946	Heat Exchanger Piping Detail		

DRAWING LIST		3 | 1
Measurements Project Development - Equipment		216-10
Miscellaneous Experimental Equipment for Detector Devel.		Salsig/RG
Spectrometer Table (Installaed in Detector Tank 4K6156)		9-17-51
25284	Assembly	
25372	Plan View of Worm Gear	
25381	Front View of Inner Table Worm Housing	
25391	Front View of Outer Table Worm Housing	
4K7333	Rotating Table Base	
4K7343	Center Table Worm Gear	
4K7353	Outer Table Worm Gear	
4K7361	Center Table Mounting Screw	
4K7371	Center Table Mounting Nut	
4K7453	Outer Table	
4K7461	Center Table	
4K7471	Center Table Collar	
4K7481	Center Table Mounting Screw Jam Nut	
4K7491	Index Circle Vernier	
4K8282	Outer Table Worm Housing	
4K8292	Inner Table Worm Housing	
4K8301	Worm Housing Cover	
4K8311	Worm Shaft	
4K8321	Worm Shaft Bearing Inner Race Spacer	
4K8332	Worm Shaft Bearing Outer Race Spring	
4K8341	Worm Shaft Driving Nut	
4K8351	Worm Drive Shaft Wilson Seal	
4K8361	Outer Table Wilson Seal Shaft	
4K8381	Inner Table Wilson Seal Shaft	
4K8391	Worm Wilson Seal Shaft Handle	

DRAWING LIST		3	2
Measurement Project Development - Equipment		216-10	
Miscellaneous Experimental Equipment for Detector Devel.		Salsig/rg	
Spectrometer Table (Installed in Detector Tank 4K6156)		9-20-51	
4K8401	Worm Wilson Seal Shaft Handle Lock Nut		
4K8411	Worm Wilson Seal Shaft Knob Rework		
4K8421	Hold Down Dog		
4K8371	Outer Table Wilson Seal Shaft		
25413	Viewing Telescope Mounting		
25903	Telescope Mount		
5F1731	Telescope Mounting Plate		
5F1741	Telescope Mounting Plate Stud		
4K8794	Faceplate Sub-Assembly		
4K8802	Viewing Window Welding Neck		
4K8761	Viewing Window		
4K8771	Viewing Window Flange		
4K8781	Viewing Window Loading Gasket		
4K8812	Base Board Mounting Bracket		
25873	Spectrometer - Detector Tube Leads		
4K9522	Detector Tube Mount		
4K9531	Detector Tube Retaining Strap		
4K9542	Swivel Tube		
4K9553	Swivel Tube Support		
4K9561	Swivel Joint Spring		
4K9571	Vacuum Seal Carrier Plate		
4K9581	Coaxial Connector Carrier Plate		

DRAWING LIST

		3	3
Measurements Project Development - Equipment		216-10	
Miscellaneous Experimental Equipment for Detector Devel.		Salsig/rg	
Spectrometer Table (Installed in Detector Tank 4K6156)		9-20-51	
4K9591	Coaxial Connector Plate Spacer		
4K9601	Cover Tube		
5F2612	Faceplate Center Hole Rework		
5F1193	Storage Case (for Spectrometer Assembly)		

DRAWING LIST

Job: Measurements Project Development - Equipment		Job No. 216-10
Miscellaneous Experimental Equipment for Detector Devel.		Prepared by: Salsig/rg
Balanced Filters (Used with Spectrometer Table 25284)		Date: 9-19-51
PART NO.	DESCRIPTION	REMARKS
27366	Gas Filter & Adjustment Mechanism	
5F3243	Detector Tank Faceplate	
5F5833	Inner Table Fluorescer Mount	
5F7483	Gas Filter Mounting Plate	
5F7493	Gas Filter Body	
5F7503	Gasket Clamp Plate	
5F7513	Adjustment Shaft Seal	
5F7523	Adjustment Sahft Body	
5F7533	Adjustment Shaft Handle	
5F7543	Adjustment Shaft Handle Stop	
216-1361	Modification of Foil Filter Frame	
	See Job Order 210-14, Serial #31246 (7-21-50)	
	for Specification of Pure Metal Foils Used.	

Radiation Laboratory, University of California, Berkeley

DRAWING LIST

Job: Measurements Project Development - Equipment		Job No. 216-10
Miscellaneous Experimental Equipment for Detector Devel.		Prepared by Salsig/rg
Calibration Ionization Chamber I (Used with Detector Tank 4K6156)		Date 9-18-51
Drawing No.	Description	Revision
25743	Calibration Ionization Chamber I	
4K9134	Body	
4K9142	Body End Cover	
4K9151	Window Retaining Frame	
4K9161	Electrode Lead Bushing	
4K9171	Bushing Retaining Collar	
4K9181	Bushing Seal Washer	
4K9191	Collector Electrode Insulator	
4K9202	Coaxial Connector Carrier Plate	
4K9211	Coaxial Connector Carrier Plate Spacer	
4K9222	Connection Box Cover	
4K9242	Collector Electrode	
4K9251	Detector Housing Ion Chamber Faceplate	
25862	Faceplate Ion Chamber Window	
5F3243	Faceplate (For use with Spectrometer)	
4K9341	Faceplate Window Adapter	
4K9351	Faceplate Window Retaining Frame	
4K9361	Faceplate Window Cover	
4K9371	Ion Chamber Spacer Stud	
26373	Xenon Transfer Manifold	
4K9401	Filling Manifold Cold Trap Sub-Assembly	
4K9411	Filling Manifold Cold Trap Nipple	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Misc. Experimental Equipment for Detector Development	Salsig/rg
Ionization Chamber II (Monitor)	9-24-51

5F6993	Assembly	
5F7002	Chamber	
5F7012	End Cover	
5F7021	Round Aperture	
5F7031	Guard Ring	
5F7041	Plate	
5F7051	Insulator	
5F7061	Contact Clip	
5F7071	Chamber Support Bar	
5F7131	Rectangular Aperture	
5F7161	Window Retaining Frame	
5H1101	Window Frame 5/16 Dia. Hole	
5H1111	End Cover for 5/16 Dia. Hole	

DRAWING LIST

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Job	Measurements Project Development - Equipment	216-10
	Misc. Experimental Equipment for Detector Development	Salsig/rg
	Ionization Chamber IIA	9-24-51

Part No.	Title	Date
216-1601	Ion Chamber IIA Insulator Lead Assembly	
216-1611	Ion Chamber IIA Case	
216-1621	Ion Chamber IIA Plate	
216-1631	Ion Chamber IIA Bushing (Outer)	
216-1641	Ion Chamber IIA Guard Ring & Tube	
216-1651	Ion Chamber IIA Guard Ring Bushing (Inner)	
216-1661	Ion Chamber IIA Insulator Washer	
216-1671	Ion Chamber IIA Insulator Screw	
216-1681	Ion Chamber IIA Insulator Flange	

DRAWING LIST

Measurements Project Development - Equipment		216-10
Misc. Experimental Equipment for Detector Development		Salsig/rg
Ionization Chamber III		9-24-51
5H2673	Assembly	
5H1441	Plate	
5H1451	Plate Insulator Clamp Ring	
5H1461	Plate Support Insulator	
5H1471	Plate Lead Insulator Washer	
5H1481	Guard Ring & Tube	
5H1491	Guard Tube Insulator	
5H1501	Guard Ring Nut	
5H1511	3/8" Window Holder	
5H1521	3/8" Window Clamp	
5H1531	Solid Flange	
5H1542	Window End Flange	
5H1554	Shield Can	
5H1561	Shield Can Cover	
5H1573	Chamber	
216-1591	1" Window Holder	
4K9151	Window Retaining Frame	
5H7732	1 3/16 Window Holder	

DRAWING LIST		3 / 9
Measurements Project Development - Equipment		216-10
Misc. Experimental Equipment for Detector Development		Salsig/rg
Detector Calibration Chamber I (for Shovels)		9-24-51
29924	Detector Calibration Tank I	
216-1692	Support Bench	
5H1894	Tank	
5H2593	Side Port Cover	
5H2603	End Port Cover	
5H2613	Fluorescer Side Port Cover	
5H2623	Pump End Cover	
5H2633	Top Cover	
5H2812	Fluorescer Wheel	
5H2821	Fluorescer Wheel Drive Shaft	
5H2831	Fluorescer Wheel Shaft	
5H2852	Fluorescer Wheet Bearing	
5H2861	Fluorescer Drive Seal	
5H2871	6" Port Cover	
5H2881	Absorber Port Cover	
216-1351	Tank Support Posts	
5H3001	Angle Shield Support	
5H3011	Edge Shield Support	
5H3021	Target Support	
5H3032	Detector Electrode	
5H3043	Detector Electrode Shell	
5H3053	Detector Electrode Support	
5H3063	Side Shield	
5H3073	Mounting Plate	

DRAWING LIST		3	10
Measurements Project Development - Equipment		216-10	
Misc. Experimental Equipment for Detector Development		Salsig/rg	
Detector Calibration Chamber I (for Shovels)		9-24-51	
216-1071	Fluorescer Wheel Index		
216-1081	Fluorescer Wheel Index pin		
216-1091	Fluorescer Wheel Hand Wheel		
4K9222	Connection Box Cover		
4K9211	Connection Box Spacer		
5F2951	Electrode Lead Bushing		
5F2961	Electrode Lead Washer		
5F3011	Electrode Lead		
4K9202	Coaxial Corner Plate		
4K9171	Bushing Clamp Collar		
5H2603	Rework End Tank Cover		
5F9072	Window Adapter		
5F2991	Window Frame		
5H2893	Absorber Tube		
5F7563	Pyrex Pipe Adapter		
5H1384	Index End Tube		
5H1373	Mounting Bar		
5H4313	Blind End Tube		
5H1421	Clamp		
5H1391	Push Rod		
5H1411	Index Pin		
5H1401	Index Pin Bracket		
5H1741-2	Tie Bar - Threaded		
5H1741-1	Tie Bar - Clearance		

DRAWING LIST

Measurements Project Development - Equipment		216-10
Misc. Experimental Equipment for Detector Development		Salsig/rg
Detector Calibration Chamber I (for Shovels)		9-24-51
5H1584	Fluorescer Modification 6" Vac. Pipe Tee	
5H2752	Target Support Tube	
5H2762	Target Support Tube Gland	
5H2771	Target Support Tube Gland Nut	

DRAWING LIST

Measurements Project Development - Equipment		216-10
Misc. Experimental Equipment for Detector Development		Salsig/rg
Calibration Tank II		9-24-51
216-1722	Shovel Calibration Assembly	
216-1733	Tank Extension (Used with X-Ray Dolly Detector	
	Housing 4K6156)	
216-1741	Detector SupportII	
216-1751	Detector Back Plate	
216-1761	Detector Support Shaft	
216-1771	Detector Shaft Seal	
216-1781	Pivot Handle	
216-1791	Pivot Adjustment	
216-1801	Detector Support	
216-1811	Detector Base Plate	
216-1822	Detector Slide Way	
216-1831	Slide Way Pad	
216-1841	Shovel Case Window	
216-1851	Guard Ring Contact	
216-1861	Mount Plate	
216-1871	Amphenol Plug Rework	
216-1881	Amphenol Insulator Rework	

DRAWING LIST

JOB	Measurements Project Development - Equipment	SECTION 3 / PAGE 13 / No. 216-10
	Miscellaneous Experimental Equipment for Detector Devel.	PREPARED BY Salsig/rg
	Fluorescors (Used as Secondary Targets)	DATE 9-18-51

PART NO.	DESCRIPTION	REMARKS
25813	Secondary Target (For Series A Electrode Structure)	
4K9112	Secondary Target	
4K9122	Secondary Target Support Collar	
5F6974	Fluorescer Wheel Assembly	
5F5871	Fluorescent Wheel Shaft	
5F5881	Fluorescent Wheel Drive Shaft	
5F5891	Fluorescent Wheel Bearing	
5F5902	Fluorescent Wheel Support Tube	
5F5912	Fluorescent Wheel & Ionization Chamber Plate	
5F5922	Fluorescer Wheel	
5H1373	Series C Fluorescer Mounting Bar	
5H1384	Index End Tube	
5H1391	Push Rod	
5H1401	Index Pin Bracket	
5H1411	Index Pin	
5H1421	Clamp	
5H1584	Fluorescer Modification - 6" Vac. Pipe Tee	
5H1741	Tie Bar	
5H1871	Cover Plate	
5H4313	Blind End Tube	

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DRAWING LIST

JOB Measurements Project Development - Equipment		216-10
Detector Type Proving Experiments		Salsig/rg
Px Detectors and Low Pass Filters		9-18-51

PART NO.	TITLE	REMARKS
26433	Px Detector - Series A (Used on Spectrometer)	
5F2143	Housing	
5F2152	Base Plate	
5F2161	Electrode	
5F2171	Electrode Support Insulator	
5F6962	Px Detector - Series B Electrode	
25822	Low Pass Filter - Series A (Used on Spectrometer)	
4K9262	Supporting Frame	
4K9271	Supporting Frame Cover Plate	
4K9281	Wall	
4K9291	Wall Spacer	
5F2981	Low Pass Filter - Series B Blade	
5F3682	Low Pass Filter - Series C Blade	
5F7472	Low Pass Filter - Series C Blade Blank	

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DRAWING LIST

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Measurements Project Development - Equipment		216-10
Detector Type Proving Experiments		Salsig/rg
Photocell Detectors		9-19-51
PART NO.	TITLE	REVISION
4K9383	Preliminary Layout - 100 cm Photocathode Assembly	
4K9393	Preliminary Layout - 100 cm Photocathode Head	
26353	Photomultiplier Exploding Wire Test - 3/4" Ball Support	
26363	Photomultiplier Exploding Wire Test - 1 1/4" Ball Support	
5F7893	Xylene Tank Probe Head Assembly	
5F7904	Xylene Test Chamber Assembly	
5F6841	Inner Coax Nut	
5F6851	Chamber Gasket	
5F6861	Coax Seal Washer	
5G6871	Inner Coax Connector	
5F6881	Outer Coax Connector	
5F6891	Inner Coax Washer	
5F6901	Outer Coax Terminal	
5F6913	Tube Clamp & Spacer Ring	
5F6924	End Cover Plate	
5F6934	Liquid Container	
5F7613	Oval Liquid Container	
5F7883	Test Chamber - Xylene Tank Mounting Bracket	
216-1371	Xylene Photocell Test - Installation in 184" Cyclotron	

DRAWING LIST

SECTION 4	PAGE 3
JOB Measurement Project Development - Equipment	JOB NO. 216-10
Detector Type Proving Experiments	PREPARED BY Salsig/rg
F1 Px Detector - Series A	DATE 9-19-51

PART NO.	DESCRIPTION	REMARKS
26443	F1 Px Detector - Series A	
5F2143	Housing	
5F2152	Base Plate	
5F2163	Electrode	
5F2171	Electrode Support Insulator	
5F2671	Signal Electrode	
5F2683	Collector Electrode	
5F2692	Collector Electrode Cover	
5F2703	Electrode Support Ring	
5F2711	Mounted Target	
5F2721	Collector Electrode Support Insulator	
5F2731	Collector Electrode Spacing Insulator	
5F2741	Signal Electrode Support Insulator	
5F2751	Signal Electrode Spacing Insulator	
5F2904	Window Carrier Vacuum Cover	
5F2912	Pump Manifold	
5F2924	Face Plate	
5F2931	Window Adapter	
5F2941	Window Retaining Frame	
5F2951	Electrode Lead Busning	
5F2961	Electrode Lead Washer	
5F3011	Electrode Lead	
5F3021	Pyrex Cross Window End Plate	
5F3032	Liquid Air Trap	
5F3043	Mounting Bracket	

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DRAWING LIST

JOB: Measurements Project Development - Equipment		JOB NO. 216-10
Detector Type Proving Experiments		PREPARED BY Salsig/rg
F1 Px Detector - Series A		DATE 9-19-51
PART NO.	DESCRIPTION	REMARKS
5F3061	Liquid Air Trap Cover	
5F2711A	Mounted Target - Iron	
4K9171	Bushing Retainer Collar	
4K9202	Coaxial Connector Carrier Plate	
4K9211	Coaxial Connector Carrier Plate Spacer	
4K9222	Connector Box Cover	
5F6962	Electrode - Series A-2	
5H2752	Target Support Tube Clamp	
5H2762	Target Tube	
5H2771	Target Tube Gland Nut	
216-1382	Movable Target Support Assembly	
216-1571	Sample Wall for Soldered Be Window	

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DRAWING LIST		4	5
Measurements Project Development - Equipment		216-10	
Detector Type Proving Experiments		Salsig/rg	
F1 Px Detector - Series B		9-20-51	
28044	F1 Px Detector - Series B		
4E8081	Ion Gage Body Fitting		
4K9171	Bushing Retaining Collar		
5F9011	Terminal Box		
5F9021	Terminal Box Cover		
5F9031	Collector Electrode Support Insulator		
5F9041	Collector Shield Support Insulator		
5F9051	Packing Gland Nut		
5F9061	Packing Gland Ring		
5F9072	Window Adapter #1		
5F9082	Target Tube		
5F9092	Target Tube Packing Gland		
5F9102	Tee Manifold		
5F9113	Vacuum Tank Cover Inlet Lid		
5F9123	Vacuum Tank Cover Exit Lid		
5F9134	Detector Electrode Shield		
5F9144	Detector Electrode		
5F9154	Vacuum Tank		
5F9164	Vacuum Tank Stand		
5F2931	Window Adapter #2		
5F2941	Window Retaining Frame		
5F2951	Terminal Lead Insulating Bushing		
5F2961	Terminal Lead		
5F3011	Terminal Lead		

DRAWING LIST		4	6
Measurements Project Development - Equipment		216-10	
Detector Type Proving Experiments		Salsig/rg	
F1 Px Detector - Series B		9-20-51	
5F3021	Pyrex Tube Window End Plate		
5F3032	Liquid Air Trap		
216-1411	Window Adapter		
216-1421	Collimation Window		
216-1431	Collimation Tube		

DRAWING LIST

Measurements Project Development - Equipment		216-10
Detector Type Proving Experiments		Salsig/rg
Mark I Shovel Assembly		9-24-51
Drawing No.	Material	Notes
216-1722	Shovel Calibration Assembly	
216-1891	Electrode Shell Insulator	
216-1901	Baffle Disk	
216-1911	Short Shovel	
216-1921	Baffle Ring	
216-1933	Short Shovel Case	
216-1941	"O" Ring Starter Plug	
216-1951	"O" Ring Starter Ring	
216-1961	Guard Ring Outer Bushing	
216-1971	Guard Ring Inner Bushing	
216-1981	Guard Ring	
216-1991	Shovel Support Stem	

DRAWING LIST

Measurements Project Development - Equip,ent	216-10
Detector Type Proving Experiments	Salsig/rg
Mark II Shovel Assembly	9-24-51

216-2001	Shovel Support Stem II	
216-2011	Detector Support II	
216-2021	Baffle Disk	
216-2031	Baffle Ring II	
216-2041	Detector Support III	
216-2051	"O" Ring Starter Plug	
216-2061	"O" Ring Starter Ring	
216-2071	Stem Wrench	
216-2081	Guard Ring Wrench	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Detector Type Proving Experiments	Salsig/rg
Trigger Ionization Chamber (Not Used)	9-25-51

216-2232	Trigger Ionization Chamber Assembly	
5H5001	Window Frame	
5H4941	Guard Ring	
5H4951	Guard Ring Stem	
5H4961	Guard Ring Outer Bushing	
5H4971	Guard Ring Inner Bushing	
5H5011	Mount Plate	
5H5982	Center Electrode	
5H4993	Outer Electrode	

DRAWING LIST		5 / 1
Measurements Project Development - Equipment		216-10
200 Ft. Absorption & Scattering Test		Salsig/rg
Series A Vacuum Pipes - 6" & 12" (Used Behind Bldg. #46)		9-19-51
26775	Vacuum Pipe Layout - 6" & 12" Pipe	
26784	Vacuum Pipe - 6" Vee Pipe 16 1/2" Flange	
26813	6" Vacuum Pipe Handling Lugs	
26823	6" & 12" Vacuum Pipe Gasket Joints	
5F3514	6" Vacuum Pipe	
5F3523	6" Vacuum Pipe Drill Jig	
5F8032	6" Pipe Flange - Pre-welding Machining	
5F3591	6" Pipe Facing Detail	
5F3694	12" Vacuum Pipe (5F5853----12" Pipe Drill Jig)	
5F3822	6" Vacuum Pipe Gasket Plate	
5F3832	12" Vacuum Pipe Gasket Plate	
5F4076	6" Vee Vacuum Pipe	
5F5843	12" Pipe End Cover	
5F5853	6" Pipe End Cover	
26794	VMF 260 Pumping Manifold	
26833	Preliminary Study - Pumping Manifold	
5F4253	6" Vacuum Pipe Pumping Tee	
5F4274	6" Vacuum Pipe Pump Manifold	
5F4282	6" Pump Manifold Valve Housing	
5F3923	VMF 260 Water Cooled Baffle	
5F3913	Water Cooled Baffle Machining Fixture	
5F3931	Water Cooled Baffle Soldering Fixture	
5F3941	Water Cooled Baffle Soldering Fixture Base	
5F3951	Water Cooled Baffle Soldering Fixture Ring	

DRAWING LIST		5	2
Measurements Project Development - Equipment		216-10	
200 Ft. Absorption & Scattering Test		Salsig/rg	
Series A Vacuum Pipes - 6" & 12" (Used Behind Bldg. #46)		9-19-51	
5F9001	VMF 260 Forepump Flange		
5F3961	Diffusion Pump Gate Valve Disc		
5F8712	VMF 260 Gate Valve Disc Series B		
5F3971	Diffusion Pump Gate Valve Retainer		
5F3982	Diffusion Pump Gate Valve Stem		
5F3991	3/4" Chevron Seal Nut		
5F4001	Valve Stem Handle		
5F4124	Pumping Station Liquid Air Trap		
5F8582	Blank Cover Liquid Air Trap Port		
26853	Vacuum Pipe - 12" Pipe Adjustable Diaphragm		
26863	Vacuum Pipe - 6" Pipe Adjustable Diaphragm		
5F6704	6" Diaphragm Assembly		
5F4263	6" Vacuum Pipe Diaphragm Housing		
5F5293	6" Diaphragm Housing Sub-Assembly		
5F5301	Diaphragm Viewing Window		
5F5311	Diaphragm Viewing Window Retainer		
5F5322	Diaphragm Viewing Window Neck		
5F5331	Diaphragm Adjustment Rod Boss		
5F5343	6" Fixed Diaphragm - 141' Level		
5F5351	Fixed Diaphragm - 65' Level		
5F5361	Diaphragm Adjustment Wilson Seal Body		
5F5371	Diaphragm Adjustment Wilson Seal Nut		
5F5381	Diaphragm Adjustment Wilson Seal Shaft		
5F5392	Diaphragm Adjustment Collar		

DRAWING LIST		5	3
Measurements Project Development - Equipment		216-10	
200 Ft. Absorption & Scattering Test		Salsig/rg	
Series A Vacuum Pipes - 6" & 12" (Used Behind Bldg. #46)		9-19-51	
5F6714	12" Diaphragm Assembly		
5F5401	6" Adjustable Diaphragm		
5F4813	12" Vacuum Pipe Diaphragm Housing		
5F5453	12" Diaphragm Housing Sub-Assembly		
5F5463	12" Diaphragm Fixed		
5F5471	12" Adjustable Diaphragm		
5F5531	Diaphragm Adjustment Boss (45°)		
5F5541	Diaphragm Adjustment Boss (30°)		
26843	Vacuum Pipe - Preliminary Study - Station 131 Arrangement		
26804	Vacuum Pipe - Preliminary Study - Detector Housing		
5F4954	Test Pipe Detector Housing		
5F4942	Adapter - Detector Housing to Vacuum Manifold		
5F7773	Preliminary Design Bellows Connections		
5F4054	Pipe Support Stand		
5F5701	6" Pipe Saddle		
5F5711	6" Pipe Bolt Washer		
5F5721	6" Pipe "U" Bolt		
216-1391	House for Vacuum Gages, Power Supplies, etc.		
216-1401	Tool Cabinet		
Marked Print 4703A	Kinney Oil Pan		
MARKED PRINT 4C9382A	Forevac Flexible Nipple		

DRAWING LIST		5 4
Measurements Project Development - Equipment		216-10
200 Ft. Absorption & Scattering Test		Salsig/rg
Series A Vacuum Pipes - 6" & 12" (Used behind Bldg. #46)		9-20-51
4C9391	Flexible Nipple Flange	
4C9401	Bellows Joining Ring	
4E8081-2	Ion Gage Fitting - Steel	
1A1601	Ion Gage Stuffing Box Body - Threaded	
7121	Ion Gage Stuffing Box Gasket	
1A1391	Ion Gage Stuffing Box Ring	
1A1401	Ion Gage Stuffing Box Nut	
Marked Print 5F4253	6" Vacuum Pipe Electrode Housing	
5F8783	Electrode Housing Mount Flange	
	See Series C Electrode Structure for X-Ray	
	Head Mounting.	
216-1561	Detector Housing Ion Chamber Mounting Flange	

DRAWING LIST

Measurements Project Development - Equipment		216-10
Eniwetok Installation - Series B Vacuum Pipe		Salsig/rg
8" Vacuum Gate Valve		9-21-51
5H5356	8" Vacuum Valve Assembly	
5H5344	Housing	
5H5852	8" Flange	
5H5323	Cover Plate	
5H5313-1	Gate Plate	
5H5282	Gate Spacer Bar	
5H5292	Guide Plate	
5H5221	Gate Tension Spring	
5H5241	Spring Attachment Pin	
5H5211	Gate Guide Pin	
5H5302	Valve Stem	
5H5332	Valve Stem Handle	
5H5201	Valve Stem Attachment Block	
5H5231	Chevron Seal Nut	
5H5251	Outer Wedge Block	
5H5261	Center Wedge Block	
5H5271	Bearing Retainer Plate	
5H5401	Bearing Retainer Bushing	
5H6383	ByPass Line	
5H6371	1" "O" Ring Flange	
5H7941	Forevac Welding Neck	

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DRAWING LIST		6	2
Measurements Project Development - Equipment		216-10	
Eniwetok Installation - Series B Vacuum Pipes		Salsig/rg	
8" & 30" Pipes		9-21-51	
28564	Design 11 - Plane View Pipe Centerlines		
28015	Design 11 - Elevation - Flange Position		
28105	Design 11 - Elevation Showing Tower		
27703	8" & 30" Pipe Flange Details		
5F8733	8" Pumping Tee		
5F8742	8" Pipe Facing Detail		
5F8752	8" Pipe Flange - Pre-welding Machining		
5F8792	8" Pipe Handling Ear		
5F8894	8" Vacuum Pipe (24' -- 5")		
5F8903	8" Vacuum Pipe (9' -- 9 5/8")		
5F8912	8" Pipe Drill Jig		
5F8943	30" Pipe Facing Detail (2' - 5") (10' - 11") (1' - 1")		
5F8953	30" Pipe Flange, Pre-welding Machining		
5F8963	30" Pipe Handling Ear		
5F8973	30" Drill Jig		
5F8986	30" Vacuum Pipe (11' - 0")		
5H1044-1	30" Vacuum Pipe (2' - 6") & (1' - 2")		
28005	End View of Junction Section		
5H1606	8" Pipe Junction Section		
5H1614	8" Junction Section 30" Flange		
5H1624	8" Pipe Sub-Assembly for Junction Section		
5H1633	Junction Section Spacer		
5H1642	8" Pipe Junction Section Handling Ear		

DRAWING LIST		6	3
Measurements Project Development - Equipment		216-10	
Eniwetok Installation - Series B Vacuum Pipes		Salsig/rg	
8" & 30" Pipes		9-21-51	
5H1651	8" Pipe Junction Section Gusset #1		
5H1661	8" Pipe Junction Section Gusset #2		
5H1671	8" Pipe Junction Section Gusset #3		
5H1681	8" Pipe Junction Section Gusset #4		
27944	8" Pipe Bellows & Pumping Port		
5H4223	8" Pipe Bellows		
5H3882	Bellows Flange		
5H3891	Bellows Joining Ring		
5H5594	8" Pipe Pumping Manifold Tee		

DRAWING LIST

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Measurements Project Development - Equipment	216-10
Eniwetok Installations - Series B Vacuum	Salsig/rg
Pumping Manifold & Erection Fixtures	9-21-51

5H5846	Components Assembly on Roof - Station 131 Victor	
5H7476	Vacuum Pump Piping Assembly	
28176	Pump Manifold Layout	
5H4256	Pump Manifold	
5H3784	2" Pump Outlet Vacuum Valve	
5H3794-1	4" Flange Bellows	
5H3794-2	4" Flange Bellows	
5H4263	4" Flanged Elbow	
5H4273	4" Pipe Gasket Plate	
Marked Print 4C9382	Forevac Flexible Nipple	
Marked Print 4E2333-1	2" Vacuum Gate Valve Assembly	
4E2461	Kerotest Valve with 1/2" R.L. Tubing Union Assembly	
5H3794	4" Flange Bellows	
5H3784	2" Pump Outlet Vacuum Valve	
5F3923	VMF 260 Water Cooled Baffle	
5H7482	Modified MB100 Duffusion Pump	
5H7492	Diffusion Pump Mounting Ring	
5H7502-1	Male Pipe Thread to Solder Fitting Nipple	
5H7502-2	Male Pipe Thread to Solder Fitting Nipple	
5H7502-3	Male Pipe Thread to Solder Fitting Nipple	
5H7502-4	Male Pipe Thread to Solder Fitting Nipple	
5H7512	DVD Pump Inlet Tee	
5H7522	2" Gasket Flange	
Marked Print 4703	Oil Pan - DVD 8810 Kinney	
4E2333	2" Screwed Vacuum Gate Valve Assembly	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installations - Series B Vacuum	Salsig/rg
Pumping Manifold & Erection Fixtures	9-21-51

5H6906	Pump Manifold Erection Fixture
5H6912	Turnbuckle Clevis Ear
5H7812	Station 131 - Ceiling Turnbuckle Anchor
Job Order Serial No. 216-10 33638	(12-19-50) Pumping Manifold Duffusion Pump
	Port Blank Cover

DRAWING LIST		6 6
Measurements Project Development - Equipment		216-10
Eniwetok Installations - Series B Vacuum Pipes		Salsig/rg
Diaphragm Housing (Collimator)		9-24-51
29015	Adjustable Diaphragms	
5M1164	Diaphragm Housing	
5M1272	Diaphragm Housing Window	
5M1282	Diaphragm Housing Window Gasket Plate	
5M1292	Diaphragm Housing Window Retaining Frame	
5M1723	Adjustment Seal Plate	
5M1733	Adjustment Shaft	
5M1742	Adjustment Chevron Seal Nut	
5M1314	Installation of 1/4" Polyethylene Liner	
5M1302	Diaphragm Housing Fixed Partition	
5M1663	Diaphragm Movable Frame	
5M1673	Diaphragm Frame Support Lug	
26924	Diaphragm Collimators	
5M3291	Top Clamp Ring B	
5M3301	Top Clamp Ring D	
5M3311	Top Clamp Ring A	
5M3321	Bottom Clamp Ring	
5M3621	Top Clamp Ring C	
5M3631	Bottom Clamp Ring C	
5M3641	Clamp Screw	
5M3651	Clamp Nut	
5M3661	Carbon Disk C	
5M3671	Lead Disk C	
5M3681	Collimating Plug C	

DRAWING LIST

		6	7
Measurements Project Development - Equipment		216-10	
Eniwetok Installations - Series B Vacuum Pipes		Salsig/rg	
Diaphragm Housing (Collimator)		9-24-51	
5M3781-1	Diaphragm Collimator A 1 5/8 Beryllium		
5M3781-2	Diaphragm Collimator B 3/4 Beryllium		
5M3791	Polystyrene Disk		
5M3801-1	Lead Disk for A Collimator		
5M3801-2	Lead Disk for B Collimator		
5M1663	Rework Diaphragm Movable Frame		
5M3943	Collimator Aligning Plate		

DRAWING LIST

		6	8
Measurements Project Development - Equipment		216-10	
Eniwetok Installation - Series B Vacuum Pipe		Salsig/rg	
20" Pipe Ported Section		9-21-51	
27974	20" Pipe Port Detail		
5H1756	20" Pipe - Ported Section		
5H1943	20" Pipe Facing Detail		
5H1952	20" Pipe Flange - Pre-welding Machining		
5H1962	20" Pipe 30" Flange Pre-welding Machining		
5H1971	Gusset for 30" Flange		
5H1983	20" Flange Handling Ear		
5H1993	30" Flange Handling Ear		
5H1053	20" Pipe 12" Dia. Port		
5H4302	20" Pipe 12" Port Window Flange		
216-1551	Be Plate Hydrostatic Test Fixture		
5H6883	Ported Section Partition Frame		
5H6893	Ported Section Partition		

DRAWING LIST

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Measurements Project Development -- Equipment		216-10
Eniwetok Installation - Series B Vacuum Pipes		Salsig/rg
16" Pipe Section		9-21-51
5H2724	16" Pipe Section	
5H2693	16" Pipe Facing Detail	
5H2702	16" Flange Pre-weld Machining	
5H2732	20" Flange for 16" Pipe Pre-weld Machining	
5H2711	16" Lifting Ear	
5H3081	Gusset	

DRAWING LIST

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Measurements Project Development - Equipment	216-10
Eniwetok Installation - Series B Vacuum Pipes	Salsig/rg
Pipe Suspension Yoke	9-21-51

27784	Suspension Yoke	
27794	Suspension Yoke Support Beams	
5H2914	20" Pipe Suspension Yoke Section	
5H1943-2	20" Pipe Facing Detail	
5H1952	20" Pipe Flange Pre-weld Machining	
5H2902	20" Suspension Section Support Gusset	
5H2683	20" Drill Jig	
5H2936	Suspension Yoke	
5H3094	Side Plate	
5H3171	Nut Block	
5H3561	Adjustment Screw	
5H3185	Framework Template	
5H3576-1	Support Beam - Single Support	
5H3576-2	Support Beam - Double Support	
5H3853	Support Beam Saddle	
5H3862	Support Beam Spacer	
5H4162	Saddle Drill Jig - H & N	
5H4183	Saddle Drill Jig - UCRL	

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DRAWING LIST

Measurements Project Development - Equipment		216-10
Eniwetok Installations - Series B Vacuum Pipes		Salsig/rg
Plastic Pipe Top Section		9-24-51
PART NO.	CONTENTS	REV.
27986	Plastic Cap Section Design	
5H3805	Winding Mandrel	
216-1181	Headstock Trunnion	
216-1191	Tailstock Trunnion	
216-1704	"Permafil" Tank & Winding Mechanism	
216-1712	Squeeze Roll Assembly	
216-1164	Winding Mechanism Frame	
216-1173	"Permafil" Reservoir	
216-1301	Squeeze Roll Sideplate	
216-1231	Squeeze Roll Sideplate Spacer	
216-1291	Squeeze Roll Slide Bearing	
216-1321	Squeeze Roll	
216-1281	Squeeze Roll Spring Guide	
216-1211	Squeeze Roll Assembly Baffle	
216-1201	Squeeze Roll Assembly Tie Bolt	
216-1251	Tape Spool	
216-1311	Spool Shaft & Brake Drum	
216-1221	Spool Spacer	
216-1331	Back Roll	
216-1261	Lead Roll Spindle	
216-1271	Lead Roll	
216-1241	Lead Roll Tray	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installation - Series B Vacuum Pipes	Salsig/rg
Gasket Rings, Blank off Plates, etc.	9-21-51

DWG. NO.	DESCRIPTION	
5F8922	8" Gasket Plate	
5F8932	30" Gasket Plate	
5H3432	16" Gasket Plate	
5H3442	20" Gasket Plate	
5H7022	20" Pipe Gasket Plate - Thick	
5H7032	8" Pipe Gasket Filler Plate 1/2" & 1"	
5M3711	8" Blank Plate - Radiation Trap	
5M3721	8" Gasket Ring - Radiation Trap	
5H3452	Pumping Tee Side Arm Cover	
5H3902	8" Blank-off Plate	
5H3912	20" Blank-off Plate	
5H3922	30" Blank-off Plate	
5H7131	Site E End Cover Plate	
5H1932	30" Test Cover	
5H3412	16" Test Cover	
5H3422	20" Test Cover	
5H1922	8" Pipe Vacuum Test Cover	
216-1581	Background Measurement Test Pipe Cover	

DRAWING LIST

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Measurements Project Development	216-10
Eniwetok Installations - Series B Vacuum Pipes	Salsig/rg
Pipe Cap and Optical Alignment Fixtures	9-24-51

28082	Pipe Cap - Design 1	
28072	Pipe Cap - Design 2	
28623	Pipe Cap - Design 3	
28633	Pipe Cap - Design 4	
5H4214-1	Pipe Cap - 3/8 Window	
5H4214-2	Pipe Cap - 3/16 Window	
5H6921	Cap Plate Beryllium Window - 3/16	
Marked Print 5H6921	Cap Plate Beryllium Window - Alum. Dummy	
5H6501	Cap Plate Beryllium Window - 3/8"	
Marked Print 5H6501	Cap Plate Beryllium Window - Alum. Dummy	
5H7881	Window Retainer Ring	
5H7891	Window Retainer Ring - Thin	
5H7964	Pipe Cap Cover Plate	
5H7953	Cross Hair Mount	
5H7824	Telescope Adapter for Plastic Cap	
5H3873	Telescope Adapter Plate - 16" Pipe	
5H1184	Telescope Base	
5H1194	Telescope Gimbal	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installations - Series B Vacuum System	Salsig/rg
X-Ray Equipment for Primary Collimator Alignment	9-24-51

29865	Alignment X-Ray Head Tank Installation	
5M3084	Series D X-Ray Head Assembly	
5M2354	Head Vacuum Tank	
5M2361	Head Window Plate	
5M2371	Head Cover Plate	
5M2381	Head Spacer	
5F7161	Head Window Frame	
4E8081-1	Ion Gage Packing Gland Body	
4K7632	Liquid Air Trap	

DRAWING LIST

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Measurements Project Development	216-10
Eniwetok Installations - Series B Vacuum Pipes	Salsig/rg
Vacuum Pipe Gasket Changing Turnbuckles	9-24-51

28644	Gasket Changing Turnbuckle	
28654	Gasket Changing Turnbuckle - Suspension End	
28664	Gasket Changing Turnbuckle - Extension	
5H6221	Turnbuckle Clevis Pin	
5H6251	Turnbuckle Clevis Pin Collar	
5H6232	Turnbuckle Body	
5H6243	Turnbuckle Clevis	
5H6243	Turnbuckle Clevis - Deep Throat	
5H6512	Suspension End Turnbuckle Body	
5H6832	Suspension End Turnbuckle Spanner Wrench	
5H6842-1	Turnbuckle Extension Rod - Short	
5H6842-2	Turnbuckle Extension Rod - Long	
5H6853	Turnbuckle Extension Clevis	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installations - Series B Vacuum Pipes	Salsig/rg
Pre-Shipment Proving Installation @ Livermore	9-24-51

27905	Horizontal Proving Installation Geometry	
27915	Horizontal Proving Installation - 8" Pipe Support	
27926	Horizontal Proving Installation - 20" & 30" Support & Anchor	
5H2946	Support Column	
5H2954	Pipe Hanger Plate	
5H2964	Pipe Hanger	
5H2973	Lateral Adjustment Jack Block	
5H2983	Lateral Adjustment Jack Screw	
5H3294	20" & 30" Pipe Support	
5H3303	Side Brace Angle	
5H3313	30" Side Brace	
5H3323	30" Pipe Hanger Beam	
5H3333	20" & 30" Pipe Hanger Beam	
5H3343	Hanger Plate	
5H3353	20" Pipe Hanger	
5H3363	20" Pipe Side Brace	
5H3373	Clamp Washer	
5H3396	Anchor	
5H3402	8" Pipe Junction Section Jack Plate	
5H3583	20" & 30" Pipe Support Clevis	
5H3144	Building Arrangement for Horizontal Proving Installation	
Job Order	216-10, Serial #33128 -- Manifold Connection Elbows	

DRAWING LIST

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Measurements Project Development - Equipment	216-10
Eniwetok Installations - Series B Vacuum Pipes	Salsig/rg
Tower Platforms	9-24-51

28105	10th Design - Elevation - 8" Pipes & Tower	
5H5864	Lateral Brace & Work Platform 25	
5H4324	Lateral Brace & Work Platform Elevation 37 1/2	
5H5874	Lateral Brace & Work Platform Elevation 62 1/2	
5H7234	Work Platform Elevation 75	
5H5884	Lateral Brace & Work Platform Elevation 87 1/2	
5H5894	Lateral Brace & Work Platform Elevation 100	
5H6194	Lateral Brace & Work Platform Elevation 112 1/2	
5H6204	Lateral Brace & Work Platform 125	
5H6214	Lateral Brace & Work Platform 127 1/2	
5H6336-1	Lateral Brace & Work Platform 150	
5H6366-2	Lateral Brace & Work Platform 162 1/2	
5H6526	Lateral Brace & Work Platform 187 1/2	
5H6874	Platform End Beam	
5H7002	8" Pipe Clamp Modification	
5H7012	Junction Section Collar	
216-1111	30" Pipe Clamp	
216-1121	Link Assembly	
216-1131	Turnbuckle Body	
5H7801	Turnbuckle Lug	
216-1141	8" Pipe Shield	
216-1151	30" Pipe Shield	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installations - Series B Vacuum Pipes	Salsig/rg
Preliminary Design - Tower Platforms	9-24-51

5H3613	Lateral Bracing Frame Elevation 25	
5H3623	Lateral Bracing Frame Elevation 37 1/2	
5H3633	Lateral Bracing Frame Elevation 50	
5H3643	Lateral Bracing Frame Elevation 62 1/2	
5H3653	Lateral Bracing Frame Elevation 75	
5H3663	Lateral Bracing Frame Elevation 87 1/2	
5H3673	Lateral Bracing Frame Elevation 100	
5H3683	Lateral Bracing Frame Elevation 112 1/2	
5H3693	Lateral Bracing Frame Elevation 125	
5H3713	Joint Details	

DRAWING LIST		7 | 1
Measurements Project Development - Equipment		216-10
Eniwetok Installations - Detectors		Salsig/rg
Detector III Vacuum Tank & Vacuum System		9-25-51
5M3695	Detector III Assembly	
5H6936-1	Vacuum Tank Right Hand	
5H6936-2	Vacuum Tank Left Hand	
5H8662	Radiation Traps	
5H8651	Radiation Traps Gasket Plate	
5H8753	Manifold Valve Assembly	
5H7444	Manifold	
5H7241	Valve Closing Nut	
5H7251	Chevron Seal Nut	
5H7261	Valve Cover Plate	
5H7271	Valve Disk	
5H7281	Valve Disk Retainer	
5H7291	Valve Handle	
5H7302	Valve Stem	
4E4352-3	3/4 D. Chevron Seal Spring Washer	
1G1351	3/4 D. Chevron Seal Pressure Ring	
3G6021	3/4 D. Chevron Seal Gasket	
1G1291	Lantern Ring	
1G1381	Seat Ring	
5H7351	Liquid Nitrogen Trap Cover	
5H7363	Liquid Nitrogen Trap Shroud	
5H7373	Liquid Nitrogen Heat Shield	
5H7384	Liquid Nitrogen Trap	

DRAWING LIST		7	2
Measurements Project Development - Equipment		216-10	
Eniwetok Installations - Detectors		Salsig/rg	
Detector III Vacuum Tank & Vacuum System		9-25-51	
5F3923	VMF 260 Pump Water Cooled Baffle Assembly		
5H9352	Ion Gage Terminal Bracket		
5H7332	Tank Side Cover Plate		
5H7344	Tank Front Cover Plate		
5M1154	Air Intake (Equalizer) Manifold Assembly		
5M1141	Intake Manifold Flange		
5M1131	Intake Manifold Adapter		
5H8753	Vacuum Valve		

DRAWING LIST		7	3
Measurement Project Development - Equipment		216-10	
Eniwetok Installations - Detector		Salsig/rg	
Detector III - Mark III Shovel Assembly		9-25-51	
5M2333	Mark III Shovel Assembly		
29644	Standard Detector Layout		
5M1C32	Guard Ring Insulator Assembly		
5H6281	Outer Guard Ring Bushing		
5H6291	Inner Guard Ring Bushing		
5H6301	Guard Ring		
5H6311	Baffle Disk		
5H6321	Baffle Ring		
5H6331	Shovel Stem		
5H6342	Support Plate		
5H6353	Shovel Case		
5H9322	Short Shovel		
5H9311	Shovel Case Window		
5M2101	Detector Spacer		
5M2161	Attenuator		
216-2071	Insulator Stem Wrench		
216-2081	Insulator Guard Ring Wrench		
216-2161	Guard Ring Bushing Assembly Tool		
216-2051	"O" Ring Starter Plug		
216-2061	"O" Ring Starter Ring		
5M2141	Socket Head Wrench Adapter		
5M1913	Small Tank		

DRAWING LIST

Measurements Project Development - Equipment		216-10
Eniwetok Installations - Detector		Salsig/rg
Detector III - Mark III Shovel Assembly		9-25-51
5M2191	Small Tank Flange	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installations - Detectors	Salsig/rg
Detector III - Trigger Assembly	9-25-51

5M3695	Detector III Assembly	
5H8672	Trigger Insulator Ring	
5M1234	Shovel Case	
5M1243	Shovels	
5M1251	Shovel Stem	
5M1261	Baffle Disk	
5M1772	Support Plate	
5M2101	Spacer	
5M3161	Shovel Case Window	
5M1032	Guard Ring Insulator Assembly	
216-2171	"O" Ring Start Plate	
216-2181	"O" Ring Start Plug	
29633	Trigger Detector Layout	

DRAWING LIST

Measurements Project Development - Equipment		216-10
Eniwetok Installations - Detectors		Salsig/rg
Detector III - Fluorescer Supports, Partition Window, Lead		Baffles 9-25-51
5H8584	Fluorescer Holder #1 (Bottom)	
5H8594	Fluorescer Holder #2	
5H8603	Fluorescer Holder #3	
5H8614	Fluorescer Holder #4	
5H8624	Fluorescer Holder #5 (Top)	
5M3231	Foil Punch	
5M3771-1	Polystyrene Windows .005 x 3 3/4" Dia.	
5M3771-2	Beryllium Windows .006 x 2" Dia.	
5M3771-3	Polystyrene Windows .020 x 2" Dia.	
5M3771-4	Polystyrene Windows .048 x 2" Dia.	
5M3771-5	Aluminum Windows .028 x 2" Dia.	
5H7391	Frame (Large) Window	
5H7401	Window Clamp (Large)	
5H7411	Window Frame (Small)	
5H7421	Window Clamp (Small)	
5H7431	Pump Out Hole Cover Plate	
5H8633	Lead (Pb) Baffle Plates #1 thru #4	
5H8643	Lead (Pb) Baffle Plate #5	
5H9211	Pump Out Hold Lead Plug	
29654	Detector Target Fluorescers Layout	

DRAWING LIST

		7	7
Measurements Project Development - Equipment		216-10	
Eniwetok Installation - Detectors		Salsig/rg	
Detector III Condenser Assembly		9-25-51	
5H6532	Detector Condenser Assembly		
5H6543	Condenser Housing		
5H6552	Condenser Tube		
5H6561	Condenser Contactor		
5H6571	Insulating Support		
5H7041	Condenser Coupling		
5H6592	3" Reducer Inner Conductor		
5H6582	3" Reducer Housing		
5H7831	Housing - Model B		
5H7841	Inner Conductor - Model B		
5H7852	3" Reducer Inner Conductor - Model B		
5H7862	3" Reducer Housing - Model B		
5H7901	Insulating Support - Model B		
5H7911	Amphenol Plug Assembly		
5H7921	Amphenol Body Rework		
5H7931	Amphenol Insulator Rework		
5H8551	Female Plug Coupling		
5H8561	Female Plug Short Bushing		
5H8741	Female Plug Long Bushing		
5H9221	H. V. Connecting Wire		
5M1123	Coax Line Assembly		

DRAWING LIST

		7	8
Measurements Project Development - Equipment		216-10	
Eniwetok Installations - Detector		Salsig/rg	
Detector III Condenser Assembly		9-25-51	

5H6391	Insulating Support (Small)	
5H7831	Small Reducer Housing	
5H7841	Small Reducer Inner Conductor	
5H7851	3" Reducer Inner Conductor	
5H7862	3" Reducer Housing	
5H7901	Insulating Support (Large)	
5M1944	Master Pressure Manifold Assembly	
5M1921	Manifold Tee	
5M1932	Manifold Funnel Retainer	
5M2093	Distribution Manifold	
5H6953	Guard Ring Forming Die	
216-2241	7/8" Coax Spacer Ring	
216-2251	Flex Coax Gas Barrier	

DRAWING LIST

Measurements Project Development- Equipment		216-10
Eniwetok Installations - Detectors		Salsig/rg
Detector III - Blank Covers, Wood Shipping Covers, etc.		9-25-51
5H7312	Tank Top Cover Plate	
5H7322	Tank Lower Cover Plate	
5H7332	Tank Side Cover Plate	
5H7344	Tank Front Cover Plate	
5M1001	Detector Opening Blank Plate	
5M1011	Trigger Opening Blank Plate	
5H9411	Liquid Nitrogen Trap Opening Cover	
5H9341	Radiation Trap Opening Cover	
5H9401	Diffusion Pump Opening Cover	
5H9391	Pump Out Opening Cover	
5H9381	Detector Opening Cover	
5H9371	Detector Opening Cover	
5M1021	Tank Top Wood Cover	

DRAWING LIST

		7	10
Measurements Project Development - Equipment		216-10	
Eniwetok Installations - Detectors		Salsig/rg	
Detector III Installations Dolly & Misc. Supports		9-25-51	
5M1186	Dolly Assembly		
5M1193	Caster		
5M1203	Caster Sleeve		
5M1216	Frame		
5M1223	Jack Bar		
5M1842	Detector Tank Front Support		

DRAWING LIST

Measurements Project Development - Equipment		216-10
Eniwetok Installations - Detectors		Salsig/rg
Detector III - Calibration Accessories		9-25-51
5H8682	Calibration Insulator Ring	
5M3701	Blank Shovel	
5M1784	White Ion Chamber Mount Plate	
5M1791	7 3/8 Dia. Cover Plate	
5M1803	X-Ray Head Ring	
5M1812	X-Ray Ground Shield	
5M1851	Shim Ring	
5M3203	Detector Tank Top Plate	
5M3211	1" Window Holder	
5M3762	Dual Lead Cover Plate	
5M3751	7 3/8 Dia. Alum. Cover Plate	
216-2191	Shovel Alignment Fixture	
216-2222	Light Mount Plate	
216-2211	Light Collimating Tube	
216-2201	Shovel Alignment Pin	
5M2341	Detector Shovel Corona Cap	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installations - Detectors	Salsig/rg
"Bremsstrahlung" Detector Vacuum System	9-25-51

29875	B. S. Tank & Detector	
29665	B. S. Detectors - Vacuum System	
5M1116	B. S. Detector Tank	
5M1174	B. S. Detector Tank Extension	
5H8662	Radiation Traps	
5H8651	Radiation Traps Gasket Plate	
5H1656	Manifold	
5H1584	Liquid Nitrogen Trap	
5M1594	Liquid Nitrogen Trap Shield	
5M1603	Trap Shroud	
5M1631	Trap Cap Shield	
5M1641	Trap Cap Shield Spacer	
5M1621	Liquid Nitrogen Trap Cap	
5M1612	Trap Cover Assembly	
1A1591	Ion Gage Fitting	
5H8753	Valve Assembly	
5H7241	Valve Closing Nut	
5H7251	Chevron Seal Packing Nut	
5H7261	Valve Cover Plate	
5H7271	Valve Disk	
5H7281	Valve Disk Retainer	
5H7302	Valve Stem	
4E4352-3	3/4 Dia. Chevron Seal Spring Washer	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installations - Detectors	Salsig/rg
"Bremsstrahlung" Detector Vacuum System	9-25-51

1G1351	3/4 Dia. Chevron Seal Pressure Ring	
3G6021	3/4 Dia. Chevron Seal Gasket	
1G1291	Lantern Ring	
1G1381	Seat Ring	
5M1763	Air Intake Manifold Assembly	
5M1141	Air Intake Manifold Flanges	
5M1824	Tank Front Plate	
5M1834	Tank Back Plate	
5M1872	Curved Blank Plate	
5M1861	Pump-out Blank Plate	
5M1881	Curved Blank Plate Gasket	
5M1893	1/8 Aluminum Window	
5M1901	Window Gasket	
5M2183	Electrode Case Lead Shielding	
5H9211	Pump-out Hole Lead Plug	
5M1052	B. S. Detector Lead Baffle	
5M2112	Detector Blank Plate	
5M2202	Manifold Flange	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installations - Detectors	Salsig/rg
"Bremmstrahlung" Detector - Electrodes & Fluorescers	9-25-51

5M1684	Target Fluorescer Support Frame	
5M2054	Detector Electrode	
5M2066	Detector Electrode Case	
5M2073	Detector Support Disk #1	
5M2083	Detector Support Disk #2	
5M1261	Lead Disk for Detector	
5H6321	Lead Ring for Detector	
5M2131	Detector Stem	
5M2124	Detector Insulating Support Plate	
5M2171	B. S. Detector Electrode Case Strap	
5M2183	B. S. Detector Electrode Case Shield	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installations - Detectors	Salsig/rg
"Bremmstrahlung" Detector - Condensers & Coax	9-25-51

5H8834	3 1/8 Right Angle Ell Assembly	
5H9133	Outer Conductor	
5H9143	Inner Conductor	
5H9153	Insulator	
5H9163	Inner Conductor Female Connector	
5H9173	Inner Conductor Male Connector	
5H9183	Outer Conductor Male Flange	
5H9193	Outer Conductor Female Flange	
	NOTE: Except as noted above, condensers and	
	coaxial line connections are identical	
	with Detector III Installation.	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installations - Detectors	Salsig/rg
"Bremsstrahlung" Detector Calibration Accessories	9-25-51

29894	B. S. Calibration Set Up Layout	
5M3203	Detector Tank - Top Plate	
5M3211	1" Window Holder	
5F7161	Window Retaining Frame	
5M3174	B. S. Calibration Plate	
5M3181	B. S. Window Plate	
5M3191	B. S. Shim Ring	
5M1791	7 3/8 Dia. Cover Plate	
5M3224	B. S. Tank Top Plate	

DRAWING LIST

Measurements Project Development - Equipment	216-10
Eniwetok Installations - Detector Calibration	Salsig/rg
Electrometer Contactor	9-25-51

5M1704	Electrometer Contactor Assembly	
5M1071	Shovel Case Contactor	
5M1692	Guard Ring Contactor - Thick Flange	
5M1094	Calibration Shield	
5M1103	Calibration Contactor Assembly	
5M1061	Shovel Contactor	
5M1071	Shovel Case Contactor	
5M1082	Guard Ring Contactor	
5M1094	Shield	

DRAWING LIST

Measurements Project Development - Equipment		216-10
Eniwetok Installations - Detector III Calibration		Salsig/rg
White Ion Chamber (For Monitoring Series D Electrode Structure		9-24-51
29554	White Ion Chamber - Tentative Layout	
29543	White Ion Chamber Layout	
5M3823	Ion Chamber Cross Section Assembly	
5M2393	White Ion Chamber	
5M2403	White Ion Flange	
5M2411	White Ion Index Plate	
5M2421	White Ion Hinge	
5M2431	White Ion Bracket	
5M2441	White Ion Coax Shield	
5M2451	White Ion Insulator	
5M3041	White Ion Guard Ring	
5M3051	White Ion Anode	
5M3061	White Ion Cover	
5M3071	White Ion Plug	
5F7161	Window Retaining Frame	
5M1851	Shim Ring	
5M2151	Ion Box Collimator 3/8 Hole	
5M2161	Attenuator 1/8 Plate	
5M1953	Ion Chamber	
5M1962	Ion Chamber Leg	
5M1972	Ion Chamber Flange	
5M1981	Guard Ring	
5M1991	Coax Insulator	
5M2001	Coax Clamp	
5M2011	Ion Chamber Cover Plate	

DRAWING LIST

Measurements Project Development - Equipment | 216-10

Eniwetok Installations - Detector III Calibration | Salsig/rg

White Ion Chamber (For Monitoring Series D Electrode Structure) 9-25-51

5M2021	Ion Chamber Anode	
5M2031	Coax Collar	
5M2041	Coax Shield	
5F7161	Window Retaining Frame	
5M2393	White Ion Chamber	
5M2403	White Ion Flange	
5M2411	White Ion Index Plate	
5M2421	White Ion Hinge	
5M2431	White Ion Bracket	
5M2441	White Ion Coax Shield	
5M2451	White Ion Insulator	
5M3041	White Ion Guard Ring	
5M3051	White Ion Anode	
5M3061	White Ion Cover	
5M3071	White Ion Plug	
5M1851	Shim Ring	
5M2151-1	Ion Box Collimator 3/8 Hole	

DRAWING LIST

Measurements Project Development	216-10
Eniwetok Installations - Detectors	Salsig/rg
"E" Trigger	9-24-51

5M2216	"E" Trigger Assembly	
5M2226	Inner Conductor	
5M2236	Outer Conductor	
5M2241	Filling Valve (Modified 1/8" I.P.T. Hoke)	
5M2251	Compound Gage	
5H6291	Guard Ring Inner Bushing	
5H6301	Guard Ring	
5H6281	Outer Guard Ring Bushing	
5M2262	Inner Conductor Support Pin	
5M2273	Guard Ring Cover Plate	
5M2283	Guard Ring Cap	
5M2292	Guard Ring Lock Screw	
5M2302	Guard Ring Compression Sleeve	
5M2313	Guard Ring Lock Nut	
5H7041	Condenser Coupling	
5H6532	Detector III Coax. Line Condenser Assembly	
5H7252-2	Detector III Coax. Line 3" Reducer Inner Conductor	
5H7901	Detector III Coax. Line Insulating Support (Large)	
5M2322	Condenser 3" Reducer Housing	
5H7911	Detector Supply Lead - Amphenol Plug Assembly	
Job Order 216-10 Serial #34427	Guard Ring Blocking Disc (For Shipping)	

DRAWING LIST

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Measurements Project Development - Equipment		216-10	
Eniwetok Installations		Salsig/rg	
Station 131 Arrangements - Easy & Victor Sites		9-19-51	
5F7953	Station 131 Victor Arrangement 4 or 5 Vacuum Pipes		
5F8993	Station 131 Easy Arrangement		
5F5286	Station 131 (Easy & Victor) Door Detail		
5F2843	Station 131 (Easy & Victor) Layout		
5F2854	Station 131 Victor Conduit Installation		
5F4014	Conduit End Assembly		
5F2832	7/8" Coaxial Cable Bending Detail		
5F3424	Station 131 - Conduit A		
5F3434	Station 131 - Conduit D		
5F3443	Conduit Pit End Cap		
5F3534	Station 131 - Conduit B		
5F3544	Station 131 - Conduit C		
5F3552	Conduit Side Cover		
5F3573	Conduits A & D Detector End Cover		
5F3583	Conduits B & C Detector End Cover		
Los Alamos 1-19685	Tentative Scheme - UCRL Vacuum Pipe System		
27954	50' & 150' Level Shadow Shields		

DRAWING LIST

Measurements Project Development - Equipment		216-10
Eniwetok Installations - Station 131		Salsig/rg
Wooden Mock Up of Station 131 Internal Arrangement		9-24-51
PART NO.	DESCRIPTION	REV
5H7102	Trap Mock-up	
5H7114	Capacitor Mock-up	
5H7124-1	Manifold Mock-up Right Hand	
5H7124-2	Manifold Mock-up Left Hand	
216-2101	Side Plate	
216-2111	Mount Disk	
216-2121	Pipe Extension	
216-2131	Tank	
29934	Horizontal Section Thru Detector Tanks and Station 131	

DRAWING LIST		8 3
Measurements Project Development - Equipment		216-10
Eniwetok Installation		Salsig/rg
Miscellaneous Fabrication for Electrical Division		9--20-51
5H7796	Power Supply Impregnation Assembly	
5H7741	Motor Mounting Ring	
5H7752	2" Pipe Flange	
5H7763	Oil Trap	
5H7774	Bell Jar Cover Plate	
5H7784	Cold Air Tank	
4K7632	Liquid Air Trap	
5H7094	Vacuum Gage Monitor System - Microswitch Assembly	
5H7051	Switch Shim Plate	
5H7061	Cam Pin	
5H7072	Cam Plate	
5H7083	Mounting Plate	
5H7094	Switch Assembly	
5H9334	7 KV Battery Power Supply Assembly	
5H7784	Cold Air Tank	
5H9241	Cover Plate	
5H9251	Shaft Adapter	
5H9261	Shaft Insulator	
5H9272	Switch Base Insulator	
5H9283	Battery Box	
5H9293	Panel	
5H9303	Chassis	

DRAWING LIST

Measurements Project Development - Equipment		216-10
Eniwetok Installations - Miscellaneous		Salsig/rg
P R Development		9-25-51
29915	P R Development - Layout	
5M3841	Shutter Handle	
5M3851	Shutter Shaft	
5M3861	Shutter	
5M3871	Lens Gasket	
5M3882	Lens Tube Mount Plate	
5M3892	Lens Shade	
5M3902	Lens Clamp Ring	
5M3923	Tube & Shutter Housing	
5M3933	Diaphragm & Lens Tube	
5M3952	Tube Magnetic Shield	